				To be con	npleted by Chair					To be com	pleted by TAG	i members
ltem No.	Minnesota Code Section	"I" Code Section	Subject	Current Minnesota Amend	Description of Change	Safety & Health Value	Cost Impact	Recommendation: A Accept R - Reject AM - Amend	Recommendation A - Accept R - Reject	TAG Group Consensus	Stake- holder Consensus	Comments
				Y or N		N=None M=Med,		Comments	AM - Amend	Y or N	Y or N	
COLOR K	FV۰											
	= . ı = Items that	need to be	revisited									
PURPLE	tem = Code d	nange prop	osal submitted.									
1222 04	MD 1222 0010		Conord		MR 1322 MN Residential End		-					
1322-01	MR 1322.0010 Subp 1		General.		Update reference to 2021 IECC, include chapter 6 in list of referenced chapters.			AM - Update reference to 2021 IECC, include chapter				
	Supp 1			Υ	of the referenced chapters.			6 in list of referenced				
								chapters.				
1322-02	MR 1322.0010		Mandatory chapters.		Update reference to 2021 IECC, include chapter			AM - Update reference to				
	Subp 2			Υ	6 in list of referenced chapters.			2021 IECC, include chapter				
								6 in list of referenced				
1322-03	MR 1322.0010		Replacement chapters.					chapters.				
1322 03	Subp 3		neplacement enapters.	Υ				A - Adopt as written				
1322-04	MR 1322.0015		Administration.	Υ				A - Adopt as written				
	Subp 1		-	'				A - Adopt as written				
1322-05	MR 1322.0015 Subp 2		Purpose.	Υ				A - Adopt as written				
1322-06	MR 1322.0030		Generally.									
1011 00	Subp 1			Υ				A - Adopt as written				
1322-07	MR 1322.0030		Building code.	γ				A - Adopt as written				
	Subp 2			'				A - Adopt as written				
1322-08	MR 1322.0030		Residential code.	Υ				A - Adopt as written				
1322-09	Subp 3 MR 1322.0030		Electrical code.									
	Subp 4		2.550.100.100.000	Υ				A - Adopt as written				
1322-10	MR 1322.0030		Fuel gas code.	Υ				A - Adopt as written				
4000 11	Subp 5			·				, , , dopt do writter				
1322-11	MR 1322.0030 Subp 6		Mechanical code.	Υ				A - Adopt as written				
1322-12	MR 1322.0030		Plumbing code.									
	Subp 7		3	Υ				A - Adopt as written				
1322-13	MR 1322.0030		Private sewage disposal	Υ				A - Adopt as written				
4222.4.4	Subp 8		code.	<b>'</b>				, wope do written				
1322-14	MR 1322.0030		Energy conservation code.	Υ				A - Adopt as written				
1322-15	Subp 9 MR 1322.0030		Property maintenance									
1322 13	Subp 10		code.	Υ				A - Adopt as written				

	I							
1322-16	MR 1322.0030	Accessibility of	ode.		1	A - Adopt as written		
4222.47	Subp 11	A due to take a king						
1322-17	MR 1322.0040	Administrativ procedure cri	I Y		/	A - Adopt as written		
1322-18	MR 1322.0100	Administratio						
1322-10	Subp 1	Administratio	Υ Υ		1	A - Adopt as written		
1322-19	MR 1322.0100	Scope.		Change to:				
(Code Change	Subp 2	Эсоре.		"This code applies to residential buildings and				
Submitted - RE-	300p 2			associated systems and equipment as defined				
1)				in the Residential Provisions of the (code year				
-,				and code book??).				
				, i				
				Consider repealing this altogether in favor of				
			Υ	language in IECC "R401.1 Scope". Also could		AM -		
			r	amend here to add reference to accessory		AIVI -		
				buildings, which are presently difficult to track.				
				Do we need reference to the code year and				
				code book in the scoping?				
				Review CCP RE-1. If the definition for				
				"Residential Building" is changed per CCP RE-15,				
1322-20	MR 1322.0100	Applicability.		RE-1 is likely not necessary.				
1322-20	Subp 3	Applicability.	Υ	NA				
1322-21	MR 1322.0100	Additions, alt	erations.	Section needs update in light of Chapter 5			1	
1022 21	Subp 3A	renovations,	I Y	Existing Buildings in '21 IECC (R503).	/	AM -		
1322-22	MR 1322.0100	Change in occ		Section needs update in light of Chapter 5				
	Subp 3B	use.	· / /	Existing Buildings in '21 IECC (R505). Might not	/	AM -		
				be needed.				
1322-23	MR 1322.0100	Change in spa	ce	Section needs update in light of Chapter 5				
	Subp 3C	conditioning.	Υ	Existing Buildings in '21 IECC (R502.2). Might	/	AM -		
				not be needed.				
1322-24	MR 1322.0100	Mixed occupa		See also Section C101.4.1 in 2021 IECC-C for				
	Subp 3D		Y	similar model code language. Might not be	/	AM -		
				needed.				
1322-25	MR 1322.0100	Compliance.	Υ			A - Adopt as written		
1222.26	Subp 4	Campalian	patarials					
1322-26	MR 1322.0100	Compliance n	naterials.			A - Adopt as written		
1322-27	Subp 4A MR 1322.0100	Low energy b	ıildings	Contain is nearly the same language in the IECC-				
1322-27	Subp 4B	Low energy b	Y Y	R under Section R402.1.	ı	Repeal MN amendment.		
	Junh 4D			IN UNIVERSECTION NAUZ.1.				

compliance path" is added. Two items in the MN amendment are not in the IECC text: "Fan motor horsepower and controls" and "Lighting fixture schedule with wattage and control  Y narrative". These two items have little to no application to Residential and are not needed.  Suggest using the unamended model code language of R103.2 & R103.2.1 rather than the amended MN language.	Repeal MN amendment.
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				Y or N		N=None, M=Med,		Comments	AM - Amend	Y or N	Y or N	
COLOR K	EY:											
	= Items tha	t need to be	revisited.									
	n = MN Ame											
PURPLE i	tem = Code (	change prop	osal submitted.									
					СНАРТ	ER 2						
202-1	R202	R202	Definition: Above-grade		Definitions are identical in MRE & IECC.				А	Υ		
			wall	N	"A wall more than 50 percent above grade and enclosing conditioned space. This includes between-floor spandrels, peripheral edges of floors, roof and basement knee walls, dormer walls, gable end walls, walls enclosing a			A - Adopt as written				
202-2	R202	NA	MN Amended Definition: Accessible		mansard roof and skylight shafts."  Definition is in MRE as a MN Amendment, not located in 2021 IECC.  "Signifies access that requires the removal of an access panel or similar removeable obstruction."			Review in tandem with IECC definition "Access (to)". See ICC definition "Access (to)" which is very similar.	R	Y		
202-3	R202	NA	MN Amended Definition: Accessible, Readily	Y	Definition is in MRE as a MN Amendment, not located in 2021 IECC.  "Signifies access without the necessity for remvoing a panel or similar obstruction."			Review in tandem with IECC definition "Ready access (to)".	A	Y		
202-4	R202	R202	Definition: Access (to)	N	New definition - does not exist in the 2015 MRE.  "That which enables a device, appliance or equipment to be reached by ready access or by a means that first requires the removal or movement of a panel or similar obstruction."			A - Adopt as written	A	Υ		Definitions should not include the word they are defining. "Ready Access" is also a defined term which does not include the word "access."
202-5	R202	R202	Definition: Addition	N	Definition is in the 2015 MRE as model code language, but the language has been updated in the 2021 IECC.  "An extension or increase in the conditioned space floor area, number of stories or height of a building or structure."				A	Y		We may be coming back to this regarding addition as a change from unconditioned space to conditioned space. Especially with Residential and Multi -family

202-6	R202	R202	Definition: Air barrier	N	Definition is in the 2015 MRE as model code language, but the language has been updated in the 2021 IECC. "One or more materials joined together in a continuous manner to restrict or prevent the passage of air through the building thermal envelope and its assemblies."	A - Adopt as written	A		Y	
202-7	R202	NA	MN Amended Definition: Air circulation, forced	Y	Definition is in MRE as a MN Amendment, not located in 2021 IECC.  "A means of providing space conditioning using movement of air through ducts or plenums by mechanical means."		A		Y	Table and consider removing after review of 403
202-8	R202	NA	MN Amended Definition: Air, exhaust	Υ	Definition is in MRE as a MN Amendment, not located in 2021 IECC.  "Air discharged from any space to the outside by the residential ventilation system."		Repe		Y	
202-9	R202	NA	MN Amended Definition: Air, outdoor	Y	Definition is in MRE as a MN Amendment, not located in 2021 IECC.  "The air that is taken from the external atmosphere, and therefore not previously circulated through the HVAC system or the conditioned space."		AM			unamended in MN Mechanical code. Consider defining outside as outdoor, beyond the building envelope.
202-10	R202	NA	MN Amended Definition: Air-conditioning system	Υ	Definition is in MRE as a MN Amendment, not located in 2021 IECC.  "A system that consists of heat exchangers, blowers, filters, and supply, exhuast, and returnair systems and includes any apparatus installed in connection with the system."		Repe	al	Y	Includes HRV's and ERV's. Will include definition of ventilation.  Model mechancial code. Will need a robust conversation regarding ventilation.
202-11	R202	NA	Definition: Alteration	N	Definition is in the 2015 MRE as model code language, but the language has been updated in the 2021 IECC.  "Any construction or renovation to an existing structure other than repair or addition that requires a permit. Also, a change in a mechanical system that involves an extension, addition or change to the arrancement, type or purpose of the original installation that requires a permit."		Amend to second p		Y	
202-12	R202	NA	MN Amended Definition: Approved	Y	Term is in both codes but definition in MRE is a MN Amendment.  ""Approved" means approval by the building official, pursuant to the State Building Code, by reason of: inspection, investigation, or testing; accepted principles; computer simulations; research reports; or testing performed by either a licensed engineer or by a locally or nationally recognized testing laboratory."		Repe	al	Y	

222.12	2000	Innan	In 6		In 16 ht 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T		.,	
202-13	R202	R202	Definition: Approved Agency	N	New definition - does not exist in the 2015 MRE.  "An established and recognized agency that is regularly engaged in conducting tests or furnishing inspection services, or furnishing product certifications, where such agency has been approved by the code official."	A - Adopt as written	A	Y	
202-14	R202	R202	Definition: Automatic	N	Definitions are identical in MRE & IECC.  Self-acting, operating by its own mechanism when actuated by some impersonal influence, as, for example, a change in current strength, pressure, temperature or mechanical configuration (see "Manual").	A - Adopt as written	A	Y	
202-15 (Alternate Definition Submitted)	R202	NA	MN Amended Definition: Balanced System	Y	Definition is in MRE as a MN Amendment, not located in 2021 IECC.  "A ventilation system in which the air intake is within ten percent of the exhaust output."	AM - Amend Def not in IECC. Look at Mech and IECC - C	AM	Y	Has been an issue. May need to add clarifying language. Does this include exhaust, air intake, ventilation air? Does this include all air introduced into the building and all air being discharged? Look at SONAR from previous amendment. John Smith will write a code change proposal. Ensure that balanced air can not be interpreted as distribution in to spaces. Caution regarding measurement of pressure in lieu of measuring airflow rates. Look at definition of "ventilation" in the IMC. Intent is that this is for mechanical ventilation and from the mechanical code Tabled.
202-16	R202	R202	Definition: Basement wall	N	Definitions are identical in MRE & IECC.  "A wall 50 percent or more below grade and enclosing conditioned space."	A - Adopt as written	A	У	
202-17	R202	R202	Definition: Building	N	Definitions are identical in MRE & IECC.  "Any structure used or intended for supporting or sheltering any use or occupancy, including any mechanical systems, service water-heating systems and electric power and lighting systems located on the building site and supporting the building."	A - Adopt as written	A	Y	
202-18	R202	R202	Definition: Building site	N	Definitions are identical in MRE & IECC.  "A contiguous area of land that is under the ownership or control of one entity."	A - Adopt as written	А	Υ	

202-19	R202	R202	Definition: Building		Definition is in the 2015 MRE as model code		A	V	
202-19	R2U2	R2U2	thermal envelope		language, but the language has been updated		A	T I	
			thermal envelope		in the 2021 IECC.				
				N	"The basement walls, exterior walls, floors,	A - Adopt as written			
					ceiling, roofs and any other building element				
					assemblies that enclose conditioned space or				
					provide a boundary between conditioned space				
202.22	2000		5 6		and exempt or unconditioned space."			.,	
202-20	R202	NA	Definition:		Definition is in 2015 MRE as unamended		A	Y	No longer occurs in the code
			C-Factor (thermal		model code language and does not exist in				language.
			conductance)		2021 IECC.				
					"The coefficient of heat transmission (surface to				
				N	surface) through a building component or				
					assembly, equal to the time rate of heat flow				
					per unit area and the unit temperature				
					difference between the warm side and cold side				
					surfaces (Btu/h ft2 × °F) [W/(m2 × K)]."				
202-21	R202	R202	Definition: Cavity		New definition - does not exist in the 2015		A	Y	
			Insulation	N	MRE.	A - Adopt as written			
					"Insulating material located between framing				
					members."				
202-22	R202	R202	Definition: Circulating		New definition - does not exist in the 2015		A	Y	Confirm for both potable and non-
			hot water system		MRE.				potable water? Potable hot water
					"A specifically designed water distribution				only.
				N	system where one or more pumps are operated	A - Adopt as written			
					in the service hot water piping to circulate				
					heated water from the water-heating				
					equipment to the fixtures and back to the water-				
					heating equipment."				
202-23	R202	R202	Definition: Climate Zone		New definition - does not exist in the 2015		A	Y	
				N	MRE.	A - Adopt as written			
				.,	"A geographical region based on climatic	/ / /dope as written			
					criteria as specified in this code."				
202-24	R202	R202	MN Amended		Definition is in MRE as a MN Amendment, not		Α	Y	
			Definition:		located in 2021 IECC.				
			Code	N	"For purposes of this chapter, "this code" or	A - Adopt as written			
				14	"the code" means the Minnesota Residential	A Adopt as written			
					Energy Code, Minnesota Rules, Chapter 1322."				
202-25	R202	R202	Definition: Code official		Definitions are identical in MRE & IECC.		A	Y	
					"The officer or other designated authority				
				N	charged with the administration and	A - Adopt as written			
					enforcement of this code, or a duly authorized				
					representative."				
202-26	R202	R202	Definition: Commercial		Definitions are identical in MRE & IECC.		А	Y	
			building	N	"For this code, all buildings that are not	A - Adopt as written			
				14	included in the definition of "Residential	/ /dopt as written			
					building.""				
202-27	R202	R202	Definition: Conditioned		Definitions are identical in MRE & IECC.		a	Y	
			floor area	N	"The horizontal projection of the floors	A - Adopt as written			
					associated with the conditioned space."				

202-28	R202	R202	Definition: Conditioned space	N	Definition is in the 2015 MRE as model code language, but the language has been updated in the 2021 IECC.  "An area, room or space that is enclosed within the building thermal envelope and that is directly or indirectly heated or cooled. Spaces are indirectly heated or cooled where they communicate through openings with conditioned spaces, where they are separated from conditioned spaces by uninsulated walls, floors or ceilings, or where they contain	A - Adopt as written	A	Y	
202-29	R202	R202	Definition: Continuous air barrier	N	uninsulated ducts, piping or other sources of heating or cooling."  Definitions are identical in MRE & IECC.  "A combination of materials and assemblies that restrict or prevent the passage of air	A - Adopt as written	A	Υ	
202-30	R202	R202	Definintion: Continuous Insulation	N	through the building thermal envelope."  New definition - does not exist in the 2015  MRE.  "Insulating material that is continuous across all structural members without thermal bridges other than fasteners and service openings. It is installed on the interior or exterior, or is integral to any opaque surface of the building envelope.	A - Adopt as written	A	Y	
202-31	R202	R202	Definition: Crawl space wall	N	Definition is in 2015 MRE as unamended model code language and does not exist in first printing of 2021 IECC.  "The opaque portion of a wall that encloses a crawl space and is partially or totally below grade."		Amend to match second printing	Y	Added back into the second printing.
202-32	R202	NA	Definition: Cubic feet per minute (CFM)	Y	Definition is in MRE as a MN Amendment, not located in 2021 IECC.  "The quantity of air moved in one minute. A measurement typically applied to ventilation equipment."		Repeal	Y	Change "Quantity" to Volume.
202-33	R202	R202	Definition: Curtain wall	N	Definitions are identical in MRE & IECC.  "Fenestration products used to create an external nonload-bearing wall that is designed to separate the exterior and interior environments."		А	Y	
202-34	R202	R202	Definition: Demand Recirculation Water System	N	Definition is in the 2015 MRE as model code language, but the language has been updated in the 2021 IECC.  "A water distribution system where one or more pumps prime the service hot water piping with heated water upon demand for hot water."	A - Adopt as written	А	Y	

202-35	R202	R202	Definition: Dimmer		New definition - does not exist in the 2015		А	γ	
202 33	11202	11.202	Deminion. Diminici	N	MRE.  "A control device that is capable of continuously varying the light output and energy use of light sources."	A - Adopt as written	, ,	·	
202-36	R202	R202	Definition: Duct	N	Definitions are identical in MRE & IECC.  "A tube or conduit utilized for conveying air.  The air passages of self-contained systems are not to be construed as air ducts."	A - Adopt as written	А	Y	
202-37	R202	R202	Definition: Duct system	N	Definitions are identical in MRE & IECC.  "A continuous passageway for the transmission of air that, in addition to ducts, includes duct fittings, dampers, plenums, fans and accessory air-handling equipment and appliances."	A - Adopt as written	A	Υ	
202-38	R202	R202	Definition: Dwelling unit	N	Definitions are identical in MRE & IECC.  "A single unit providing complete independent living facilities for one or more persons, including permanent provisions for living, sleeping, eating, cooking and sanitation."	A - Adopt as written	А	Y	
202-39	R202	R202	Definition: Dwelling Unit Enclosure Area	N	New definition - does not exist in the 2015 MRE.  "The sum of the area of ceiling, floors, and walls separating a dwelling unit's conditioned space from the exterior or from adjacent conditioned or unconditioned spaces. Wall height shall be measured from the finished floor of the dwelling unit to the underside of the floor above."	A - Adopt as written	AM	Υ	Consider modifying language to address interstitial wall space between units. Centerline of wall between units? Blower door testing application? Need to verify.
202-40	R202	R202	Definition: Energy analysis	N	Definitions are identical in MRE & IECC.  "A method for estimating the annual energy use of the proposed design and standard reference design based on estimates of energy use."	A - Adopt as written	А	Y	
202-41	R202	R202	Definition: Energy cost	N	Definitions are identical in MRE & IECC.  "The total estimated annual cost for purchased energy for the building functions regulated by this code, including applicable demand charges."	A - Adopt as written	А	Y	
202-42	R202	NA	MN Amended Definition: Energy Recovery Ventilator (ERV)	Υ	Definition is in MRE as a MN Amendment, not located in 2021 IECC.  "A device or combination of devices applied to transfer energy and moisture from the exhaust air stream for use within the dwelling."		AM	Y	Energy Recovery Ventilation System is in Mechanical Code.
202-43	R202	R202	Definition: Energy Simulation Tool	N	Definitions are identical in MRE & IECC.  "An approved software program or calculation-based methodology that projects the annual energy use of a building."	A - Adopt as written	А	Y	Building Official is the approver by definition of "Approved"

202-44	R202	R202	Definition: Entrance door	N	Definition is in 2015 MRE as unamended model code language and does not exist in 2021 IECC.  "Fenestration products used for ingress, egress and access in nonresidential buildings, including, but not limited to, exterior entrances that utilize latching hardware and automatic closers and contain over 50-percent glass specifically designed to withstand heavy use		Amend to delete	Y	
202-45	R202	R202	Definition: ERI Reference Design		and possibly abuse."  New definition - does not exist in the 2015  MRE.  "A version of the rated design that meets the minimum requriements of the 2006 IECC."		A	Y	Scale is base-lined at 2006. Different iterations of IECC have updated definitions of design for ERI Pathway. May be problems
				N	minimum requirements of the 2000 fect.	Discuss			with 2021. Just as HERS got updated in 2024we should not just adopt as iswe should look at new definitions.  Review in tandem with "Rated Design".
202-46	R202	R202	Definition: Exterior wall	N	Definitions are identical in MRE & IECC. "Walls including both above-grade walls and basement walls."		А	Y	ŭ.
202-47	R202	R202	Definition: Fenestration	N	Definition is in the 2015 MRE as model code language, but the language has been updated in the 2021 IECC. "Products classified as either vertical fenestration or skylights.  Skylights. Glass or other transparent or translucent glazing material installed at a slope of less than 60 degrees from horizontal including unit skylights, tubular daylighting devices, and glazing materials in solariums, sunrooms, roofs and sloped walls.  Vertical Fenestration: Windows that are fixed or operable, opaque doors, glazed doors, glazed block and combination opaque/glazed doors composed of glass or other transparent or translucent glazing materials and installed at a slope of not less than 60 degrees from horizontal."	A - Adopt as written	A	Y	

202.49	     	מממ	Dofinition: Forestration		Definitions are identical in MART 9 ICCC		Λ	V	
202-48	R202	R202	Definition: Fenestration product, site-built	N	Definitions are identical in MRE & IECC.  "A fenestration designed to be made up of field- glazed or field-assembled units using specific factory cut or otherwise factory-formed framing and glazing units. Examples of sitebuilt fenestration include storefront systems, curtain walls and atrium roof systems."	A - Adopt as written	A	Y	
202-49	R202	R202	Definition: F-Factor	N	Definition is in 2015 MRE as unamended model code language and does not exist in 2021 IECC.  "The perimeter heat loss factor for slab-ongrade floors (Btu/h × ft × °F) [W/(m × K)]."	A - Adopt as written	A	Y	
202-50	R202	NA	MN Amended Definition: Furnace	N	Definition is in MRE as a MN Amendment, not located in 2021 IECC.  "A vented heating appliance designed or arranged to discharge heated air into a conditioned space or through a duct or ducts."	A - Adopt as written	AM	Y	Definition found in the mechanical code. Use MN amended definition or unamended mechanical code definition in 2020 MMC?
202-51	R202	NA	MN Amended Definition: Heat recovery ventilator (HRV)	Υ	Definition is in MRE as a MN Amendment, not located in 2021 IECC.  "A device or combination of devices applied to transfer energy from the exhaust air stream for use within the dwelling."		AM	Y	Look to definition of ERV and eliminate references to humidity.
202-52	R202	R202	Definition: Heated slab.	N	Definitions are identical in MRE & IECC. "Slab-on-grade construction in which the heating elements, hydronic tubing, or hot air distribution system is in contact with, or placed within or under, the slab."		A	Y	
202-53	R202	R202	Definition: High Efficacy Light Sources	N	Definition is in the 2015 MRE as model code language, but the term and definition has been updated in the 2021 IECC. Compact fluorescent lamps, light-emitting diode (LED) lamps, T-8 or smaller diameter linear fluorescent lamps or other lamps with an efficacy of not less than 65 lumens per watt, or luminaires with an efficacy of not less than 45 lumens per watt.	A - Adopt as written	AM	Y	Match the second printing of the first edition.
202-54	R202	R202	Definition: Historic Building	N	New definition - does not exist in the 2015 MRE.  "Any building or structure that is one or more of the following: 1) Listed or certified as eligible for listing by the State Historic Preservation Officer or the Keeper of the National Register of Historic Places, in the National Register of Historic Places. 2) Designated as historic under an applicable state or local law. 3) Certified as a contributing resource within a National Registered-listed, state-designated or locally designated historic district."	AM			TAG will discuss the current definition in MR 1300, TAG wants definitions to match.

202-55 R20	.02	R202	Defintion: Infiltration						
			Definition: minitration	N.	Definitions are identical in MRE & IECC.  "The uncontrolled inward air leakage into a	A Adamhas weither	A	Y	
				N	building caused by the pressure effects of wind or the effect of differences in the indoor and	A - Adopt as written			
202-56 R20	02	R202	Definition: Insulating		outdoor air density or both."  Definition is in 2015 MRE as unamended		A	Υ	Have definition for continuous
202-30	.02	11202	sheathing		model code language and does not exist in		A	'	insulation, not needed.
			Sileatining	N	2021 IECC.	A - Adopt as written			msulation, not needed.
				14	"An insulating board with a core material having	A Adopt as written			
					a minimum R-value of R-2."				
202-57 R20	02	R202	Definition: Insulated		New definition - does not exist in the 2015		А	Υ	
			siding		MRE.				
					"A type of continuous insulation with				
				N	manufacturer-installed insulating material as an	A - Adopt as written			
					integral part of the cladding product having an				
					R-value of not less than R-2."				
202-58 R20	.02	R202	Definition: Labeled		Definition is in the 2015 MRE as model code		А	Υ	
					language, but the language has been updated				
					in the 2021 IECC.				
					"Equipment, materials or products to which				
					have been affixed a label, seal, symbol or other				
					identifying mark of a nationally recognized				
				N	testing laboratory, approved agency or other	A - Adopt as written			
				14	organization concerned with product evaluation	A Adopt as written			
					that maintains periodic inspection of the				
					production of such labeled items and whose				
					labeling indicates either that the equipment,				
					material or product meets identified standards				
					or has been tested and found suitable for a				
			= 6 · · · · · · · · ·		specified purpose."		_		
202-59 R20	.02	R202	Definition: Listed		Definitions are identical in MRE & IECC.		А	Υ	
					"Equipment, materials, products or services				
					included in a list published by an organization				
					acceptable to the code official and concerned				
					with evaluation of products or services that				
				N	maintains periodic inspection of production of	A - Adopt as written			
					listed equipment or materials or periodic evaluation of services and whose listing states				
					either that the equipment, material, product or				
					service meets identified standards or has been				
					tested and found suitable for a specified				
					purpose."				
202-60 R20	.02	R202	Definition: Low-voltage		Definitions are identical in MRE & IECC.		А	Υ	
		- <del>-</del> -	lighting		"Lighting equipment powered through a		, ,	·	
				N	transformer such as a cable conductor, a rail	A - Adopt as written			
					conductor and track lighting."				
202-61 R20	.02	R202	Definition: Manual		Definitions are identical in MRE & IECC.		А	Υ	
				N	"Capable of being operated by personal	A - Adopt as written			
					intervention (see "Automatic")."				

202-62	R202	NA	MN Amended Definition: Manufacturer's Installation Instructions	Y	Definition is in MRE as a MN Amendment, not located in 2021 IECC.  "Printed instructions included with equipment, the provision of which is one of the conditions for listing and labeling."	AM - Keep MN Definition	А	Y	Keep current amended language and evaluate before finalizing.  Consider changing or removing the word "printed".
202-63	R202	NA	MN Amended Definition: Mechanical ventilation	Υ	Definition is in MRE as a MN Amendment, not located in 2021 IECC.  "The mechanical process of supplying conditioned or unconditioned air to, or removing it from, any space."	A - Adopt as written			Revisit amended definition
202-64	R202	R202	Definition: Occupant sensor control	N	New definition - does not exist in the 2015 MRE.  "An automatic control device that detects the presence or absence of people within an area and causes the lighting, equipment or appliances to be regulated accordingly."	A - Adopt as written	А	Y	
202-65	R202	R202	Definition: On-Site Renewable Energy	N	New definition - does not exist in the 2015 MRE. "Energy from renewable energy resources harvested at the building site."	A - Adopt as written	A	Y	
202-66	R202	R202	Definition: Opaque door	N	New definition - does not exist in the 2015 MRE.  "A door that is not less than 50 percent opaque in surface area."	A - Adopt as written	А	Y	
202-67	R202	NA	MN Amended Definition: Proposed design	Υ	Definitions are identical in MRE & IECC.  "A description of the proposed building used to estimate annual energy use for determining compliance based on total building performance."		AM	Y	Amend to add-in per second printing.
202-68	R202	R202	Definition: Rated Design	N	New definition - does not exist in the 2015 MRE.  "A description of the proposed building used to determine the energy rating index."	A - Adopt as written	A		Need to add definition for Energy Rating Index. Is referenced in the book indexso it may be somewhere.  Review in tandem with "ERI
									Reference Design" definition. "Rated Design" mentions energy rating index in the definition. Section 406 addresses the ERI Compliance Alternative.
202-69	R202	R202	Definition: Ready Access (to)	N	New definition - does not exist in the 2015 MRE.  "That which enables a device, appliance or equpment to be directly reached without requiring the removal or movement of any panel or similar obstruction."	A - Adopt as written	A	Y	Matches mechanical code.

202-70	R202	R202	Definition: Renewable Energy Certificate (REC)	N	New definition - does not exist in the 2015 MRE.  "An instrument that represents the environmental attributes of one megawatt hour of renewable energy, also known as an energy attribute certificate (EAC)."	A - Adopt as written			Recommendation to discuss. Has been a topic in the 2024 IECC. Will it include utility programs? Time period associated with the REC offsets? We should flag where it shows up in the code as an option or requirement.  **Shows up in Section R406.7.3.
202-71	R202	R202	Definition: Renewable Energy Resources	N	New definition - does not exist in the 2015 MRE.  "Energy derived from solar radiation, wind, waves, tides, landfill gas, biogas, biomass, or extracted from hot fluid or steam heated within the earth."	A - Adopt as written			Do we want to limit this to options for buildings?  See also "On-site renewable energy".
202-72	R202	R202	Defintion: Repair	N	Definition is in the 2015 MRE as model code language, but the language has been updated in the 2021 IECC.  "The reconstruction or renewal of any part of an existing building."				
202-73	R202	R202	Definition: Reroofing	N	New definition - does not exist in the 2015 MRE.  "The process of recovering or replacing an existing roof covering. See "Roof recover" and "Roof replacement."	A - Adopt as written	А	Y	
202-74	R202	R202	Definition: Residential building	N	Definition is in the 2015 MRE as model code language, but the language has been updated in the 2021 IECC.  "For this code, includes detached one- and two-family dwellings and townhouses as well as Group R-2, R-3 and R-4 buildings three stories or less in height above grade plane."		AM		GSM to write AM
202-75	R202	R202	Definition: Roof Assembly	N	Definition is in 2015 MRE as unamended model code language and does not exist in first printing of 2021 IECC.  "A system designed to provide weather protection and resistance to design loads. The system consists of a roof covering and roof deck or a single component serving as both the roof covering and the roof deck. A roof assembly includes the roof covering, underlayment, roof deck, insulation, vapor retarder and interior finish."	A - Adopt as written	AM		Amend to include per second printing.
202-76	R202	R202	Definition: Roof Recover	N	New definition - does not exist in the 2015 MRE.  "The process of installing an additional roof covering over an existing roof covering without removing the existing roof covering."	A - Adopt as written	А	Y	

202-77	R202	R202	Definition: Roof Repair		New definition - does not exist in the 2015		А	Υ	Part but not the entire roof.
				N	MRE.  "Reconstruction or renewal of any part of an existing roof for the purpose of its maintenance."	A - Adopt as written			
202-78	R202	R202	Definition: Roof Replacement	N	New definition - does not exist in the 2015 MRE.  "The process of removing the existing roof covering, repairing any damaged substrate and installing a new roof covering."	A - Adopt as written	А	Y	
202-79	R202	R202	Definition: <i>R</i> -Value (Thermal resistance)	N	Definitions are identical in MRE & IECC. The inverse of the time rate of heat flow through a body from one of its bounding surfaces to the other surface for a unit temperature difference between the two surfaces, under steady state conditions, per unit area (h · ft2 · ° /Btu) [(m2 · K)/W].		A	Y	
202-80	R202	R202	Definition: Service water heating	N	Definitions are identical in MRE & IECC.  "Supply of hot water for purposes other than comfort heating."	A - Adopt as written	А	Y	
202-81	R202	R202	Definition: Skylight	N	Definition is in 2015 MRE as unamended model code language and does not exist in 2021 IECC.  "Glass or other transparent or translucent glazing material installed at a slope of less than 60 degrees (1.05 rad) from horizontal. Glazing material in skylights, including unit skylights, solariums, sunrooms, roofs and sloped walls is included in this definition."	A - Adopt as written	A	Y	The term "Skylight" is included in the definition for "Fenestration".
202-82	R202	R202	Definition: Solar heat gain coefficient (SHGC)	N	Definitions are identical in MRE & IECC.  "The ratio of the solar heat gain entering the space through the fenestration assembly to the incident solar radiation. Solar heat gain includes directly transmitted solar heat and absorbed solar radiation that is then reradiated, conducted or convected into the space."	A - Adopt as written	A	Y	
202-83	R202	R202	Definition: Standard reference design	N	Definitions are identical in MRE & IECC.  "A version of the proposed design that meets the minimum requirements of this code and is used to determine the maximum annual energy use requirement for compliance based on total building performance."	A - Adopt as written	А	Y	
202-84	R202	R202	Definition: Sunroom	N	Definitions are identical in MRE & IECC.  "A one-story structure attached to a dwelling with a glazing area in excess of 40 percent of the gross area of the structure's exterior walls and roof."	A - Adopt as written	А	Y	

202-85	R202	R202	Definition: Thermal Distribution Efficiency (TDE)  Definition: Thermal	N	New definition - does not exist in the 2015 MRE.  "The resistance to changes in air heat as air is conveyed through a distance of air duct. TDE is a heat loss calculation evaluating the difference in the heat of the air between the air duct inlet and the outlet caused by differences in temperatures between the air in the duct and the duct material. TDE is expressed as a percent difference between the inlet and outlet heat in the duct."  Definitions are identical in MRE & IECC.	A - Adopt as written	A	Y	Part of the Resdidential ANSI 380 or 301 standard for performance compliance. If don't do a total duct leakage test, then makes more challenigng to gain the required HERS rating. See appendix C.
			isolation	N	"Physical and space conditioning separation from conditioned spaces. The conditioned spaces shall be controlled as separate zones for heating and cooling or conditioned by separate equipment."				
202-87	R202	R202	Definition: Thermostat	N	Definitions are identical in MRE & IECC.  "An automatic control device used to maintain temperature at a fixed or adjustable setpoint."		A	Y	
202-88 (Alternate Definition Submitted)	R202	R202	Definition: U -Factor (thermal transmittance)	N	Definitions are identical in MRE & IECC.  "The coefficient of heat transmission (air to air) through a building component or assembly, equal to the time rate of heat flow per unit area and unit temperature difference between the warm side and cold side air films (Btu/h x ft2 x °F) [W/(m2 x K)]."		A	Y	Includes boundary air films.
202-89	R202	R202	Definition: Ventilation	N	Definitions are identical in MRE & IECC.  "The natural or mechanical process of supplying conditioned or unconditioned air to, or removing such air from, any space."		A	Y	Will Revisit.
202-90	R202	R202	Definition: Ventilation air	N	Definitions are identical in MRE & IECC.  "That portion of supply air that comes from outside (outdoors) plus any recirculated air that has been treated to maintain the desired quality of air within a designated space."		А	Y	
202-91	R202	R202	Definition: Visible transmittance (VT)	N	Definitions are identical in MRE & IECC.  "The ratio of visible light entering the space through the fenestration product assembly to the incident visible light. Visible Transmittance includes the effects of glazing material and frame and is expressed as a number between 0 and 1."		A	Y	
202-92	R202	R202	Definition: Whole house mechanical ventilation system	N	Definitions are identical in MRE & IECC.  "An exhaust system, supply system, or combination thereof that is designed to mechanically exchange indoor air with outdoor air when operating continuously or through a programmed intermittent schedule to satisfy the whole house ventilation rates."		A	Y	

202-93	R202	R202	Definition:		Definitions are identical in MRE & IECC.			А	Υ	
			Zone		"A space or group of spaces within a building					
				NI	with heating or cooling requirements that are					
				IN	sufficiently similar so that desired conditions					
					can be maintained throughout using a single					
					controlling device."					

				To be cor	npleted by Chair					To be com	pleted by TAG	G members
Item No.	Minnesota Code Section	"I" Code Section	Subject	Current Minnesota Amend	Description of Change	Safety & Health Value	Cost Impact	Recommendation: A Accept R - Reject AM - Amend	Recommendation A - Accept R - Reject	TAG Group Consensus	Stake- holder Consensus	Comments
				Y or N		N=None M=Med,		Comments	AM - Amend	Y or N	Y or N	
COLOR KE	Y:											
		t need to be	revisited									
PURPLE	em – code (	change brop	osal submitted.		СНАРТ	ED 2						
					SECTION R301							
301-1	R301.1	R301.1	Climate zones, general.	N	Minor changes to text. Same net outcome.	N	N	A - Adopt as written	АМ	Y		Recommend that Zone 5 upgrade to Zone 6. Will coordinate.
301-2 (Code Change Submitted - RE- 2)	Figure R301.1	Figure R301.1	Climate zone map.	N	Updated climate zone map.			A - Adopt as written	AM	Y		
301-3 (Code Change Submitted - RE- 2)	Table R301.1	Table R301.1	Climate Zones.	N	10 counties affected between '21 IECC and '15 MRE. (Becker, Clay, Fillmore, Grant, Houston, Kanabec, Mille Lacs, Otter Tail, Wilkin, Winona.) Suggest amending to delete all states other than MN.			AM	AM	Y		Amend to delete non-minnesota data.
301-4	R301.2	R301.2	Warm Humid Counties.	N	No change and no affect on Minnesota. Suggest amending to delete.			AM	AM	Y		Delete
301-5	R301.3 & Table R301.3(1)	R301.3	Climate zones.	N	This section has been changed from "International climate zones" to "Climate zone definitions". Changes tabular format in 2015 MRE to paragraph form. Largely has little implications for MN.			A - Adopt as written	A	Y		
301-6	Table R301.3(2)	Table R301.3	Thermal climate zone definitions.	N	Gives cooling and heating degree days based on climate zone. Could amend to remove zones 1-			A - Adopt as written	AM	Y		Amend to delete Zones 1-5
301-7	None	R301.4	Tropical Climate region.	N	New section with no affect on Minnesota. Suggest deleting.	N	N	AM	AM	Y		Delete
					SECTION R302 DESIG	N CONDITIO	ONS					
R302-1	R302.1	R302.1	Interior design conditions.	N	No change.	N	N	A - Adopt as written	AM	Y		Amend to add exterior design conditions to match commercial energy code for climatic parameters.
R302-2 (Code Change Submitted - RE- 3.1)	NA	NA	Climatic data design conditions.	N	Proposed code change submitted to add this content to section R302. Content may fit better into Section R403.7(?).							

303-1	R303.1	R303.1	Material identification.	Y	The MRE expands to include 3 additional criteria.  R303.1 Identification. Materials, systems, and equipment shall be identified in a manner that will allow a determination of compliance with the applicable provisions of this code. Materials used shall be: (1) listed for the intended use; (2) installed in accordance with the manufacturer's installation instructions; and (3) installed by an installer who is certified by a manufacturer to install that specific product, if such certification exists.	L	L	Comment: Suggest maintaining current MRE language.				Recommend deleting item 3 at the very least because it is out of scope for a building official.
303-2	R303.1.1	R303.1.1	Building thermal envelope insulation	N	Minor changes to text, same net outcome. Exception has been added in IECC for insulation installed above the roof deck along with references to the IRC & IBC.  Exception: For roof insulation installed above the deck, the R-value shall be labeled as required by the material standards specified in Table 1508.2 of the International Building Code or Table R906.2 of the International Residential Code, as applicable.	N	N	A - Adopt as written	A	Y	Y	
303-3	R303.1.1.1	R303.1.1.1	Blown/sprayed roof insulation	N	Minor changes to text. Same net outcome.	N	N	A - Adopt as written	А	Y	Υ	
303-4	R303.1.2	R303.1.2	Insulation Mark Installation.	N	Similar language, but IECC now addresses blown or draped insulation products by requiring that an insulation certificate is left immediately after installation in a conspicuous area.  Insulation mark installation. Insulating materials shall be installed such that the manufacturer's R-value mark is readily observable at inspection. For insulation materials that are installed without an observable manufacturer's R-value mark, such as blown ordraped products, an insulation certificate complying with Section R303.1.1 shall be left immediately afterinstallation by the installer, in a conspicuous locationwithin the building, to certify the installed R-value of the insulation material.	L	L	A - Adopt as written	A	Y	Y	

303-5	R303.1.3	R303.1.3	Fenestration product rating.		Modified section: U-factors of fenestration products such as windows, doors, and skylights shall be determined in accordance with NFC 100. Exception: Where required, garage door U-factors shall be determined in accordance with either NFRC 100 or ANSI/DASMA 105. U-facators shall be determined by an accredited independent laboratory, and labeled and certified by the manufacturer. Products lacking such a labeled U-factor shall be assigned a default U-factor from Table R303.1.3(1) or Table R303.1.3(2). The solar heat gain coefficient (SHGC) and visible transmittance (VT) of glazed fenestration products such as windows, glazed doors and skylights shall be determined in accordance with NFRC 200 by an accredited, independent laboratory, and labeled and certified by the manufacturer. Products lacking such a labeled SHGC or VT shall be assigned a default SHGC or VT form Table 303.1.3(3).	L		A - Adopt as written	A	Y		Important to have 3rd party tested to provide consumers with information. R-value equivalency may not be enough. Overhead doors are also now often used for fully conditioned sport-courts.
303-6	R303.1.4	R303.1.4	Insulation product rating.	N	Sentence has been restructured, no technical changes made.	N	N	A	А	Y	Y	
303-7	R303.1.4.1	R303.1.4.1	Insulated Siding.	N	New Section: The thermal resistance, R-value, of insulation shall be determined in accordance with ASTM C1363. Installation for testing shall be in accordance with the manufacturer's instructions.	L	L	A - Adopt as written	A	Y	Υ	
303-8	R303.1.5	R303.1.5	Air-impermeable insulation.	N	New section: Insulation having an air permeability not greater than 0.004 cubic feet per minute per square foot under pressure differential of 0.3 inch water gauge when tested in accordance with ASTM E2178 shall be determined air-impermeable insulation.	N	N	A - Adopt as written	А	Y	Υ	
303-9	R303.1.5	NA	Minnesota Thermal Insulation Standards.	N	Section does not exist in the IECC. Renumber to 303.1.6 and retain existing amendment as follows:  Thermal insulation shall comply with Minnesota Rules, Chapter 7640, Minnesota Thermal Insulation Standards, adopted by the Department of Commerce.	L	L	AM				DLI will study to see if still necessary.
303-10		R303.2	Installation.	N	Updated section now includes reference to IRC. Materials, systems and equipment shall be installed in accordance with the manufacturer's installation instructions and the International Building Code or the International Residential Code, as applicable.			A - Adopt as written	A	Y	Y	

303-11	R303.2.1	R303.2.1	Protection of exposed foundation insulation.	N	Very minor changes to language. Same net effect.	N	N	A - Adopt as written	A	Υ	Υ	
303-12	R303.3		Maintenance information.	N	One word changed: "accessible" label in MRE, "visible" label in IECC.	N	N	A - Adopt as written	A	Υ	Υ	

				To be con	npleted by Chair					To be com	pleted by TAG	G members
ltem No.	Minnesota Code Section	"I" Code Section	Subject	Current Minnesota Amend	Description of Change	Safety & Health Value N=None	Cost Impact , L=Low	Recommendation: A Accept R - Reject AM - Amend	Recommendation A - Accept R - Reject AM - Amend	TAG Group Consensus	Consensus	Comments
				Y or N		M=Med,		Comments	Alvi - Amena	Y or N	Y or N	
	= Items tha	t need to be change prop	revisited. osal submitted.									
					CHAPTI SECTION R401							
Go to End of List					SECTION R401	GLINLINAL						
401-1	R401.1	R401.1	Scope.	N	No change.	N	N	A - Adopt as written	А	Υ	Υ	This could replace language in MF 1322.0100 Subp. 2 "Scope".
401-2	R401.2	R401.2	Application/ Compliance.	N	Different language in 2021 IECC. With the new paths in the '21, plus the "Existing Buildings" content, the language needs updating.			A - Adopt as written	A	Υ	Υ	
401-3	NA	R401.2.1	Prescriptive option.		This and the following sections provide guidance to understand which subsequent sections must be used depending on the compliance path chosen. This guides the user to R401 General, R402 Building Thermal Envelope, R403 Systems, and R404 Electrical Power and Lighting.				A	Y	Υ	
401-4	NA	R401.2.2	Total building performance option.	N	This path guides the user to R405 Total Building Performance.				А	Υ	Υ	
401-5	NA	R401.2.3	Energy Rating Index (ERI) option.	I N	This path guides the user to R406 ERI Compliance Alternative.				А	Υ	Υ	
401-6	NA	R401.2.4	Tropical climate region option.	N	This path guides the user to R407 Tropical Climate Region Compliance Path. No relevance to MN as we are not tropical.	N	N	AM - Delete section.	AM	Y	Υ	
401-7 (Code Change Submitted - RE- 5.1)	NA	R401.2.5	Additional energy efficiency.	N	This section identifies additional items that must be adhered to based on which compliance path is selected.				A	Y	Υ	
401-8	R401.3	R401.3	Certificate.	Υ	Similar language between MN & '21 text, suggest combining to take the best of both sections and remove irrelevant content.  Maintain numbered format as it reads better.			AM - Combine relevant and best language between MRE & IECC.				DLI will study to see if we need the amended language.
402.1	D402.4	ID402.4	Conoral		SECTION R402 BUILDING		IVELOPE			ly	lv	
402-1	R402.1	R402.1	General.	N	The leading paragraph includes the addition of a reference to R402.1.5 due to differences in the content and layout of the codes in R402.1.1 - 402.1.5.		M		A	Y	Υ	

402-2	NA	R402.1.1	Vapor retarder.	N	Provides a pointer to the IRC or IBC as applicable, where vapor retarders are addressed.	N	N	A - Adopt as written	AM	Y	Y	Add: An equivalent vapor retard shall be provided on the warm-ir winter side of assemblies where part of the building thermal envelope.
402-3	R402.1.1	R402.1.2	Insulation and fenestration criteria.	Y	In MN code, waterproofing is also addressed in this section due to statutory durability requirements. U-factor and SHGC are also noted with a reference to Table R402.1.2.			AM - Include waterproofing content from MRE.	AM	Y	Y	Relocate amended language to foundation walls section and retain model code language her Insert amended language into 402.2.8 and 402.2.10.
402-4 (Code Change Submitted - RE- 12)	Table R402.1.3	Table R402.1.2	Maximum assembly U-factors and fenestration requirements.	N	U-factor table is now located earlier in the IECC, it is one section later in the MRE. Comparing the tables, the IECC is slightly more efficient and fenestration U-factor decreases from .32 to .30. Skylights are unchanged. Ceiling U-factor reduces from .026 to .024. Mass walls, floors, basement walls and crawl space walls did not change in zones 5-8.  Suggest deleting zones 0-4, as well as climate zones marine 4 and 8. MN will now need Zone 5 for SE MN.	L	M	AM - Delete zones 0-4, as well as climate zones marine 4 and 8. Only leave zones 5-7. Footnotes: Delete references to zones other than 5-7 in b. Delete c, e, & f (highest point in MN is 2,301ft above sea level). Delete exception in d.	5 Yea, 8 Nay on CCP RE-12, so amend to remove irrelevant climate zones, otherwise maintain as written.			Revisit with submitted code change proposal. Topic tabled.
402-5	NA	R402.1.3	R-value alternative.		The '21 IECC takes a slightly different angle in that it lists the U-factor approach and table before the R-value approach and table. This section simply allows the use use of R-values and points the user to the R-value table (R402.1.3) in lieu of using U-factors. IECC Table R402.1.3 is Table R402.1.1 in the MRE.	N	N	A - Adopt as written				Table for review of code change proposal next meeting.
402-6 (Code Change Submitted - RE- 6.1)	Table R402.1.1	Table R402.1.3	Insulation Minimum R-values and Fenestration Requirements by Component.	Y	Table has been retitled and updated with greater efficiencies for components. MN will need Zone 5 for SE MN. U-factors have been copied over from U-factor table, however there is a mistake in the SHGC. The intention is that the SHGC is not required in Zone 5, but the table states zone 5 is to meet 0.40, but states NR in Table 402.1.2. This will be fixed in the '24 IECC-R. We could consider removing the U-factor columns from the R-value table altogether and leaving U-factors in the Table 402.1.2.  Regarding R-values, ceiling has increased from 49 to 60, wood frame walls increase and add additional CI options: 20 + 5ci, 13 + 10ci, or 0 + 20. 30 is added in the erratum.  Note there are other Erratum to this section to consider.	L	Н	AM - Delete exception to footnote b, and delete footnotes e, f, and i as it does not pertain to MN. Consider deleting U-factor content. Change SHGC in Zone 5 to NR.				Table for review of code change proposal next meeting.

402-7	R402.1.2	R402.1.4	R-value computation.	N	This section exists in the MRE for the most part, but is expanded and clarified in the IECC. The point of the section is that the user cannot just add up the R values of multiple components. Rather, the components must be summed based on the relative location in the assembly.	L	L	A - Adopt as written	A	Υ	Y	
402-8 (Code Change Submitted - CCP RE-21)	R402.1.4	R402.1.5	Total UA alternative.	N	Expands on content in MRE. Adds instruction that calculation must be in accord with ASHRAE Handbook of Fundamentals.	L	L	A - Adopt as written	A	Y	У	May need to readdress if U-value tables adjusted for fenestration.
402-9	R402.2	R402.2	Specific insulation requirements.	N	The word "(Prescriptive)" was removed in the IECC.	N	N	A - Adopt as written	А	Υ	Υ	
402-10 (Code Change Submitted - CCP RE-23)	R402.2.1	R402.2.1	Ceilings with attic spaces.	N	This section reads essentially the same as in the MRE, except the R values are increased to parallel those in Table R402.1.3. Allows a reduced insulation value where a uniform thickness of insulation can be accommodated due to an adequately tall energy heel.  Suggest deleting first sentence, as R-49 only applies to Zone 3 and south. Zones 5-7 all require the same attic R-value. Leaving the first sentence leads to confusion as to what the actual attic requirments are, as users do not realize the MN edition stems from model code language.	L	М	AM - Delete first sentence.	AM	Y	Y	Amend to delete first sentence. Delete "with attics."
402-11	R402.2.2	R402.2.2	Ceilings without attic spaces.	N	These sections are nearly identical in both codes. There are minor changes to the exact language in the IECC. The overall application is the same.	N	N	A - Adopt as written	AM	Υ	Y	Amend to delete section.
402-12 (Code Change Submitted - CCP RE-20.1)	R402.2.3	R402.2.3	Eave baffle	N	The IECC has added content in this section to further clarify the intent. The overall outcome is the same.			A - Adopt as written	RE-20.1 approved by TAG - 11/28.			Modify title to read "Wind wash prevention". Add to end: Wind wash baffle shall be provided to separate air permeable insulation from the ventilation intake space. John Smith will research to develop language
402-13 (Code Change Submitted - CCP RE-16)	R402.2.4	R402.2.4	Access hatches and doors.	N	Similar language to the MRE. Two exceptions are added. Recommend deleting the second exception as it does not pertain to MN climate zones.	N	N	AM - Delete second exception.	AM			Amend to delete exceptions. DLI to write.
402-14	NA	R402.2.4.1	Access hatches and door insulation installation and retention.	N	Similar language to the MRE with revisions.	N	N	A - Adopt as written				Amend to delete exceptions. DLI to write.
402-15	R402.2.5	R402.2.5	Mass walls.	N	Similar language to the MRE with revisions.  Added an empirical specification regarding walls with a heat capacity greater than or equal to 6 Btu/SF x degrees F.	N	N	A - Adopt as written				

402-16	R402.2.6	R402.2.6	Steel-frame ceilings, walls and floors.	N	Same content in MRE, just updated the reference to Table R402.1.2 for U-factors.	N	N	A - Adopt as written	
402-17	Table R402.2.6	Table R402.2.6	Steel-frame ceiling, wall and floor insulation R-values.	N	Some of the R-values have been updated in the IECC. MN does not often frame houses in steel, so this content has little impact.	N	N	A - Adopt as written	
402-18	R402.2.7	R402.2.7	Floors.	N	This section has been updated to differentiate among 3 potential prescriptive ways to install the insulation: 1). It is in contact with the bottom of the subfloor.  2). It is contact with top of the ceiling below, with airspace between the top of the insulation and the bottom of the subfloor. Requires the outer perimeter to have full depth insulation so the rim area is not left uninsulated.  3). The third is like option #2, but incorporates continuous insulation.  I see no problem with the outcome of this section, but suggest considering changing the language to make it more clear, or adding pictures as it is confusing to read.	L	L	AM - Consider adjusting to make easier to understand.	
402-19	R402.2.8	R402.2.8	Basement walls.	Y	For the prescriptive path, the MRE requires a minimum of R-10 to be on the exterior of the wall, whereas the IECC does not specify which side of the wall the insulation must be. The content in the MRE was based on building science research and may need to be evaluated again based on statute.  The charging language in the IECC requires all basements to be insulated, then gives an exception where 6 items must be met. In the MRE, the requirements only apply to conditioned basements. The IECC is more restrictive in that the exceptions limit the ability to have an unconditioned basement. This is largely irrelevant in MN as we rarely see unconditioned basements.	М		Comment: May be subject to building science research.	
402-20	R402.2.8	R402.2.8.1	Basement wall insulation installation.	Y	This section addresses how far the insulation must be installed down the wall. The IECC requires it to go to the top of the floor, whereas the MRE requires it to go to the top of the footing. Some if this depends if the insulation is installed on the interior or exterior of the wall. Given most foundation insulation is installed on the exterior in MN, the MRE is slightly more restrictive. The sections are very similar. The content may change based on building science research.	L		Comment: May be subject to building science research.	

402-21	R402.2.9	R402.2.9	Slab-on-grade floors.	N	The IECC and MRE essentially have the same content, except that the IECC divides the content into two main sections like the basement insulation content: main requirement including an exception, then how it must be done.	N	N	A - Adopt as written		
402-22	R402.2.9	R402.2.9.1	Slab-on-grade floor insulation installation.	N	Merely restructures same content that is in MRE.	N	N	A - Adopt as written		
402-23	R402.2.10	R402.2.10	Crawl space walls.	N	The IECC and MRE essentially have the same content, except that the IECC divides the content into two main sections like the basement insulation content: main requirement including an exception, then how it must be done.  The issue with this section in the MRE is that it was never amended to align with the basement provisions. A conditioned crawl space is essentially just a short basement. Therefore, it seems to make sense to parallel foundation insulation requirements for conditioned crawl spaces with those of conditioned basements.	N	N	AM - Amend to parallel language for conditioned basements. May be subject to building science research.		
402-24	R402.2.10	R402.2.10.1	Crawl space wall insulation installations.	N	See comments for R402.2.10 directly above.	N	N	See comments for R402.2.10 directly above.		
402-25	R402.2.11	R402.2.11	Masonry veneer.	N	No changes.	N	N	A - Adopt as written		
402-26	R402.2.12	R402.2.12	Sunroom and heated garage insulation.	N	Thermal envelope provisions for garages are now specifically addressed in the energy code. The exceptions and R-values given for thermally isolated sunrooms are the same as in the MRE, and now also apply to garages.	N	N	A - Adopt as written		
402-27	R402.3	R402.3	Fenestration.	N	The content is the same as the MRE, except that reference to R402.3.6 (Replacement fenestration) has been removed as the section is no longer located here.	N	N	A - Adopt as written		
402-28	R402.3.1	R402.3.1	U-factor.	N	No changes.	N	N	A - Adopt as written		
402-29	R402.3.2	R402.3.2	Glazed fenestration SHGC.	N	Same content in MRE, but added section regarding dynamic glazing. Serves no purpose in MN as we do not regulate SHGC.	N	N	A - Adopt as written, could also be deleted.		
402-30	R402.3.3	R402.3.3	Glazed fenestration exemption.	N	The language is slightly different in the IECC, but the outcome is essentially the same. The SHGC content will not affect MN. Interesting use of the word "shall" vs. "may" in terms of applying the exemption.	N	N	Comment: Either adopt as written, or amend to use language in MRE.		
402-31	R402.3.4	R402.3.4	Opaque door exemption.	N	The language is slightly different in the IECC, but the outcome is essentially the same. Interesting use of the word "shall" vs. "may" in terms of applying the exemption.					

402-32	R402.3.5	R402.3.5	Sunroom and heated garage fenestration.	N	Section clarifies its application to sunrooms as well as heated garages. Heated garages are presently not explicitly addressed in the MRE. The exception to allow reduced U-factor remains the same in MN climate zones. The section adds clarification for new fenestration separating sunrooms or heated garages.	Z	N	A - Adopt as written			
402-33	R402.4	R402.4	Air leakage.	N	Same provision in the MRE, but now includes reference to the additional section of R402.4.5. The additional section stems from adding R402.4.4 "Rooms containing fuel-burning appliances".	N	N	A - Adopt as written			
402-34	R402.4.1	R402.4.1	Building thermal envelope.	N	Same provision in the MRE, but now includes reference to the additional section of R402.4.1.3 "Leakage rate".	N	N	A - Adopt as written			
402-35	R402.4.1.1	R402.4.1.1	Installation.	N	Same language as the MRE.	N	N	A - Adopt as written			
402-36	Table R402.4.1.1	Table R402.4.1.1	Air barrier, air sealing and insulation installation.	N	The table is very similar to the MRE, with minor updates and clarifications.	L	L	A - Adopt as written			
402-37	R402.4.1.2	R402.4.1.2	Testing.	N	In the '21, more specific testing backstops were moved to R402.4.1.3 "Leakage rate".  Additionally, an option is added to calculate the leakage based on CFM leakage per area of the enclosure. The latter change will help smaller dwellings pass the test due to challenges resulting from lower volumes of air. An exception is added for two situations whereby the requirement is reduced to .30 CUFT/Min per SF of enclosure area.	L	L	A - Adopt as written			
402-38 (Code Change Submitted - RE- 4.1)	NA	R402.4.1.3	Leakage Rate.	N	This section provides the allowable leakage rate based on climate zone when following the prescriptive compliance option. Other compliance paths allow tradeoffs for leakage.				RE-4.1 had 6 Yeas and 6 Nays.		
402-39	R402.4.2	R402.4.2	Fireplaces.	N	The first sentence is the same, but the '21 adds content regarding the doors for factory built fireplaces listed to UL 127.	L	L	A - Adopt as written	А		
402-40	R402.4.3	R402.4.3	Fenestration air leakage.	N	Same language as the MRE.	L	L	A - Adopt as written	A		
402-41	NA	R402.4.4	Rooms containing fuel- burning appliances.	N	New provision in '21.	L	М	Merits discussion	AM (Delete)		
402-42	R402.4.4	R402.4.5	Recessed lighting.	N	Minor changes in text, same net requirement and outcome.	L	L	A - Adopt as written	Accept		
402-43	NA	R402.4.6	Electrical and communication outlet boxes (air-sealed boxes).	N	Provides specifications for boxes installed in the thermal envelope. Air sealed boxes are required in the MRE in Table R402.4.1.1.	L	L	A - Adopt as written	Accept		
402-44	R402.5	R402.5	Maximum fenestration U- factor and SHGC.	N	Same net outcome as in MRE. Exception is added in '21 for storm shelters.	L	L	AM - Delete content not pertaining to MN Climate zones.	Accept		

	SECTION R403 SYSTEMS  22.1 P403.1 P403.1 Controls Same not outcome clightly different language  Accord											
403-1	R403.1	R403.1	Controls.	N	Same net outcome, slightly different language.	L	L	A - Adopt as written	Accept			
403-2	R403.1.1	R403.1.1	Programmable thermostat.	N	Similar requirement, but instead of applying exclusively to forced air furnaces, it now applies to the primary heating or cooling system.	L	L	A - Adopt as written	Accept			
403-3	R403.1.2	R403.1.2	Heat pump supplementary heat.	N	Identical provision.	L	L	A - Adopt as written	Accept			
403-4	NA	R403.2	Hot water boiler temperature reset.	N	New provision.  2021 IECC-R Commentary: "This section provides a requirement that gives each household with a hot water boiler an opportunity for energy savings by requiring a reset that will automatically adjust the temperature of the water based on ambient conditions. The exception for domestic hot water is included to allow the sale of boilers with integrated domestic hot water production. This section aligns the IECC with federal regulations CFR10 Part 430 Subpart C (e)(2), which were in effect at the time the 2021 IECC was being developed. All equipment manufactured for sale in the US is required to meet this standard. Federal appliance standards are subject to change."			A - Adopt as written	Accept			
403-5	R403.2	R403.3	Ducts.	N	Specifies sections for which ducts must comply.			A - Adopt as written	Accept			
403-6	R403.2.1	R403.3.1	Ducts located outside conditioned space.	Y	Addresses insulation of ducts outside conditioned space. In the MRE, this was largely located within Table R403.2.1. A distinction has been drawn for insulation levels on ducts above or below 3" in diameter.  Exhaust ducts are not addressed here as they are in the MRE. Section moves backwards from MRE. Need to review all of R403 against similar provisions of the MRE.			AM - Maintain backstops set in 2015 MRE, but using the IECC-R template as much as possible.	AM - Look at requirements in '15 MRE.			
403-7	R403.2.1	R403.3.2	Ducts located in conditioned space.	Υ	This intent of this section is helpful to clarify what it means for ducts to be considered in conditioned space, however it is a step backwards from a past code opinion given by the state in the past on the topic by only requiring R19 between duct and unconditioned space. Installing a continuous air barrier below the duct could be problematic if a vapor barrier such as poly is installed on the cold side of the floor assembly to accomplish the requirement.			AM - Maintain backstops set in 2015 MRE, but using the IECC-R template as much as possible.	AM - Look at requirements in '15 MRE. Need to change.			

402.0	D402.2.1	D402.2.2	Duete buried with in		Dataile are provided here where ducts are all				ANA Locket	
403-8	R403.2.1	R403.3.3	Ducts buried within		Details are provided here when ducts are partly				AM - Look at	
			ceiling insulation.		or completely buried in ceiling insulation.				requirements in '15	
					The control of the last of the control of the contr				MRE. Need to	
					The section is a bit confusing when also reading			ANA Davis Mari	change.	
				.,	R403.3.1. It could be read to indicate that			AM - Review with the rest		
				Υ	ductwork in an attic area must be covered with			of R403 for possible		
					insulation to R19? Item #1 will be unecessary			changes.		
					if we maintain current backstop of R8, and item					
					#3 has no relevance to MN.					
403-9	NA	R403.3.3.1	Effective R-value of		Gives effective duct insulation value in ceilings if				AM - Look at	
			deeply buried ducts.		using Total Building Performance Option.				requirements in '15	
				N		L	L	A - Adopt as written	MRE. Need to	
									change.	
403-10	R403.2.2	R403.3.4	Sealing.		Same beginning language in both codes,				Accept - polled	
					however MRE includes exceptions not located				group, unanimously	
				N	in the IECC. Discuss appropriateness of	L	L	Discuss	in favor of keeping	
					maintaining exceptions. Exception #2 seems				this provision in	
					out of place to include in Energy code.				code.	
403-11	R403.2.2.1	R403.3.4.1	Sealed air handler.	N	Same language in both codes.	L	L	A - Adopt as written	Accept	
403-12	R403.2.2	R403.3.5	Duct testing.		Sets criteria for testing. Reference to			· ·	Accept	
				N	ANSI/RESNET/ICC 380 or ASTM E1554 are not in			A - Adopt as written	· ·	
					the MRE.			·		
403-13	R403.2.2	R403.3.6	Duct leakage.		New requirement to test all ducts regardless of				Accept	
				N	location inside or outside of thermal envelope.	М	?	Discuss	·	
					·					
403-14	R403.2.3	R403.3.7	Building cavities.	N	Same requirement as MRE.				Accept	
403-15	R403.3	R403.4	Mechanical system	N	Same requirement as MRE.	N	N	A - Adopt as written	Accept	
			piping insulation.			.,,	.,,	7. Adopt as written		
403-16	R403.3.1	R403.4.1	Protection of piping	N	Nearly identical to MRE, minor tweaks to	N	N	A - Adopt as written	Accept	
100.17	D 400 4	D 400 F	insulation.		wording.			·		
403-17	R403.4	R403.5	Service hot water	N	Same content as MRE, but references different	N	N	A - Adopt as written	Accept	
100.10			systems.		section numbers.			·		
403-18	NA	R403.5.1	Heated water circulation		New or expanded content in '21 IECC.				Accept	
			and temperature	N						
			maintenance systems.							
403-19	R403.4.1	R403.5.1.1	Circulation systems.	N	Expands on provisions in MRE.				Accept	
403-20	NA	R403.5.1.1.1	Demand recirculation		New or expanded content in '21 IECC.				Accept	
			water systems.	N	,				' '	
403-21	NA	R403.5.1.2	Heat trace systems.	N	New content in '21 IECC.				Accept	
403-22	R403.4.2	R403.5.2	Hot water pipe	N	Slightly revised content. MRE Table R403.4.2 is				Accept	
			insulation.		removed from IECC.					
403-23	NA	R403.5.3	Drain water heat		New provision in '21.				Chris R. review with	
			recovery units.	N					Plumbing content for	
									regulations.	
403-24	R403.5	R403.6	Mechanical ventilation.		The IECC-R references the IRC or IMC for				Polled RE17, 7, &	
(Code Change				Υ	Mechancial Ventilation requirements.				19.1. Consider zone	
Submitted - RE									6?	
<del>18</del> & RE-19.1)										

R403.5.5	R403.6.1	Heat or energy recovery		The IECC now requires HRV/ERV in CZ 7 & 8.				Polled RE-17, 7, &			
		ventilation.						19.1. Consider zone			
			Υ		L	L	A - Adopt as written	6?			
IA .	R403.6.2	Whole-dwelling		Sets fan efficacy ratings.				Polled RE-17, 7, &			
		mechanical ventilation	N					19.1. Consider zone			
		system fan efficacy.						6?			
able R403.5.1	Table R403.6.2	Whole-dwelling		Sets fan efficacy ratings. Restructured table				Accept			
		mechanical ventilation	N	compared to MRE, some increases to fan							
		system fan efficacy.									
NA			N	·				·			
403.5.17	R403.7			The state of the s				Accept			
		efficiency rating.	Υ								
1402.7	D402.0	Contains and in a model tinks		·				Amand to ACUDAE			
403.7	K403.8		N	Minor changes to language, same net outcome.							
2402.9	D402 0			Minor changes to language, same not outcome							
		system controls.	N		L	L	A - Adopt as written	Ассері			
R403.9	R403.10		N		L	L	A - Adopt as written	Accept			
100.01	5402.40.4			·							
403.9.1		Heaters.	N	to be within 3' of heater.	L	L	A - Adopt as written	Accept			
R403.9.2	R403.10.2	Time switches.	N	Minor changes to language, same net outcome.	L	L	A - Adopt as written	Accept			
R403.9.3	R403.10.3	Covers.		21 moves exception for pool cover from 70% to				Accept			
			N	75% of energy sourced from heat pump or on-	L	L	A - Adopt as written				
				Ű,							
NA .	R403.11	Portable spas.	N					Accept			
1.0	D 400 40	D 11 11 1 1		·							
NA	R403.12	•	N.	· ·				Accept			
		'	N	powered permanent spas.							
		Spas.									
				SECTION R404 ELECTRICAL POW	ER AND LIGH	TING SYST	ΓEMS				
R404.1	R404.1	Lighting equipment.						Accept			
			N	rather than 75% as in '15 MRE.	L	L	A - Adopt as written	·			
NA .	R404.1.1	Exterior lighting.		New regs for exterior lighting. Consider				Amend to ASHRAE			
				implications of scoping, and whether we need				reference.			
			NI	to add accessory buildings (IRC-IV) to list if							
			IN	garages accessory to IRC-I - III are included in	L	L					
				definition for Residential Building. Points user							
				to IECC-C.							
R404.1.1	R404.1.2		N	Same requirement.	N	N	A - Adopt as written	Accept			
	2.0.0						'				
NA	K4U4.2	interior lighting controls.	N					Accept			
		Exterior lighting		New req for exterior lighting.				Accept			
	R404.3	Levierior lighting									
-a - a - A - A - A - A - A - A - A - A -	A A A A A A A A A A A A A A A A A A A	A R403.5.1 Table R403.6.2  A R403.6.3  R403.7 R403.8  R403.9 R403.10  R403.9.1 R403.10.1  R403.9.2 R403.10.2  R403.9.3 R403.10.3  A R403.11  A R403.11  A R404.1  A R404.1  A R404.1.1	mechanical ventilation system fan efficacy.  A R403.6.2 Whole-dwelling mechanical ventilation system fan efficacy.  A R403.6.3 Testing.  B03.5.17 R403.7 Equipment sizing and efficiency rating.  B03.7 R403.8 Systems serving multiple dwelling units.  B03.8 R403.9 Snow melt and ice system controls.  B103.9 R403.10 Energy consumption of pools and spas.  B103.9.1 R403.10.1 Heaters.  B103.9.2 R403.10.2 Time switches.  B103.9.3 R403.10.3 Covers.  B103.9.3 R403.10.4 Portable spas.  B104.1 R404.1 Lighting equipment.  B104.1 R404.1.1 Exterior lighting.  B104.1.1 R404.1.2 Fuel gas lighting equipment.	mechanical ventilation system fan efficacy.  Mole-dwelling mechanical ventilation system fan efficacy.  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A R403.7 Equipment sizing and efficiency rating.  Y Similar requirement, but now sets a backstop for replacement equipment to meet minimums set by federal law.  N Minor changes to language, same net outcome.  Welling units.  N Minor changes to language, same net outcome.  Welling units.  N Similar section between codes, refers to subsections for additional stipulations.  L L  L Stands on provisions in MRE to require switch to be within 3' of heater.  N Expands on provisions in MRE to require switch to be within 3' of heater.  N N Expands on provisions in MRE to require switch to be within 3' of heater.  N N Expands on provisions in MRE to require switch to be within 3' of heater.  N N Expands on provisions in MRE to require switch to be within 3' of heater.  N N Expands on provisions in MRE to require switch to be within 3' of heater.  N N Expands on provisions in MRE to require switch to be within 3' of heater.  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NA	R404.4	NA		Proposed CCPs to be added in part under R404.4.							
•	•			SECTION R405 TOTAL BUIL	DING PERFO	RMANCE					
R405.1	R405.1	Scope.	N	Minor changes to paragraph. Adds energy usage for mechanical ventilation.				Accept			
R405.3	R405.2	Performance-based compliance.	N	Sets backstop at 2009 IECC.				Accept			
NA	Table R405.2	Requirements for total building performance.	N	Table provides prescriptive items that must be met instead of previously used headings "Mandatory" sprinkled throughout '15 MRE.				Accept			
R405.4	R405.3	Documentation.	N	Essentially same in '21, changes to numbering of subsequent sections.				Accept			
R405.4.1	R405.3.1	Compliance software tools.	N	Same.				Accept			
R405.4.2	R405.3.2	Compliance report.	N	The report in the '21 is expanded and breaks it into the permit app report and that which is needed to obtain CofO. Additional information is needed for the reports.				Accept			
NA	R405.3.2.1	Compliance report for permit application.	N	The report in the '21 is expanded and breaks it into the permit app report and that which is needed to obtain CofO.				Accept			
NA	R405.3.2.2	Compliance report for certificate of occupancy.	N	The report in the '21 is expanded and breaks it into the permit app report and that which is needed to obtain CofO.				Accept			
R405.5	R405.4	Calculation procedure.	N	References slightly adjusted subsections.				Accept			
R405.5.1	R405.4.1	General.	N	Same language.				Accept			
R405.5.2	R405.4.2	Residence specifications.	N	Nearly the same except references different numbering of section.				Accept			
Table R405.5.2(1)	Table R405.4.2(1)	Specification for the standard reference and proposed designs.	N	Some updates to table - values and references to more efficient U-values. N Dehumidistat is now included.				Accept			
R405.5.2(2)	Table R405.4.2(2)	Default distribution system efficiencies for proposed designs.	N	Same tabular values.	N	N	A - Adopt as written	Accept			
R405.6	R405.5	Calculation software tools.	N	Same statement, different section numbering referenced.	N	N	A - Adopt as written	Accept			
R405.6.1	R405.5.1	Minimum capabilities.	N	Same content.	N	N	A - Adopt as written	Accept			
R405.6.2	R405.5.2	Specific approval.	N	Same content.	N	N	A - Adopt as written	Accept			
R405.6.3	R405.5.3	Input values.	N	Same content.	N	N	A - Adopt as written	Accept			
	R405.1  R405.3  NA  R405.4  R405.4.1  R405.4.2  NA  NA  NA  R405.5.1  R405.5.1  R405.5.2  Table R405.5.2(1)  R405.6.1  R405.6.1  R405.6.2	R405.1 R405.1 R405.3 R405.2  NA Table R405.2  R405.4 R405.3.1  R405.4.1 R405.3.1  R405.4.2 R405.3.2  NA R405.3.2  NA R405.3.2  Table R405.5.1 R405.4.1  R405.5.2 R405.4.2  Table R405.5.2(1) Table R405.4.2(1)  R405.6 R405.5.1  R405.6.1 R405.5.2  R405.5.2 R405.5.2	R405.1 R405.1 Scope.  R405.3 R405.2 Performance-based compliance.  NA Table R405.2 Requirements for total building performance.  R405.4 R405.3 Documentation.  R405.4.1 R405.3.1 Compliance software tools.  R405.4.2 R405.3.2 Compliance report.  NA R405.3.2 Compliance report for permit application.  NA R405.3.2.1 Compliance report for certificate of occupancy.  R405.5 R405.4 Calculation procedure.  R405.5.1 R405.4.1 General.  R405.5.2 R405.4.2 Residence specifications.  Table R405.5.2(1) Table R405.4.2(1) Specification for the standard reference and proposed designs.  R405.6 R405.5 Calculation software tools.  R405.6.1 R405.5.1 Minimum capabilities.  R405.6.2 R405.5.2 Specific approval.	R405.1         R405.1         Scope.         N           R405.3         R405.2         Performance-based compliance.         N           NA         Table R405.2         Requirements for total building performance.         N           R405.4         R405.3         Documentation.         N           R405.4.1         R405.3.1         Compliance software tools.         N           R405.4.2         R405.3.2         Compliance report.         N           NA         R405.3.2.1         Compliance report for permit application.         N           NA         R405.3.2.2         Compliance report for certificate of occupancy.         N           R405.5         R405.4         Calculation procedure.         N           R405.5.1         R405.4.1         General.         N           R405.5.2         R405.4.2         Residence specifications.         N           Table R405.5.2(1)         Table R405.4.2(2)         Default distribution system efficiencies for proposed designs.         N           R405.6         R405.5         Calculation software tools.         N           R405.6.1         R405.5.1         Minimum capabilities.         N           R405.6.2         R405.5.2         Specific approval.         N	R405.1 R405.1 Scope.  R405.1 R405.1 Scope.  R405.3 R405.2 Performance-based compliance.  NA Table R405.2 Performance.  NA Table R405.3 Documentation.  R405.4 R405.3 Documentation.  R405.4 R405.3.1 Compliance software tools.  R405.4.2 R405.3.2 Compliance report.  NA R405.3.2 Compliance report.  NA R405.3.2 Compliance report for permit application.  NA R405.3.2.1 Compliance report for certificate of occupancy.  NA R405.3.2.2 Compliance report for certificate of occupancy.  NA R405.3.2.2 Compliance report for certificate of occupancy.  NA R405.3.2.2 Compliance report for certificate of occupancy.  R405.5 R405.4 Calculation procedure.  R405.5.1 R405.4.1 General.  R405.5.2 R405.4.2 Residence specifications.  NA R405.5.2 R405.4.2 Residence specifications.  NA Same statement, different section numbering or subsequent section.  NA References slightly adjusted subsections.  NA R405.5.2 R405.4.2 Residence specifications.  NA Same tabular values.  NA Same content.	R405.1 R405.1 Scope.  R405.1 R405.2 Performance-based compliance.  NA Table R405.2 Requirements for total building performance.  R405.4 R405.3 Documentation.  R405.4 R405.3.1 Compliance software tools.  R405.4.2 R405.3.2 Compliance report.  NA R405.3.2.1 Compliance report for permit application.  NA R405.3.2.1 Compliance report for permit application.  NA R405.3.2.1 Compliance report for permit application.  NA R405.3.2.2 Compliance report for permit application.  NA R405.3.2.3 R405.3.2 Compliance report for permit application.  NA R405.3.2.1 Compliance report for permit application.  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N Same content.	R405.1 R405.1 Scope.  R405.1 R405.1 Scope.  R405.3 R405.2 Performance-based compliance.  N Sets backstop at 2009 IECC.  R405.4 Raughteness for total building performance.  R405.5 R405.3 Documentation.  R405.4.1 R405.3.1 Compliance report.  R405.4.2 R405.3.2 Compliance report.  N Same.  R405.4.3 R405.3.1 Compliance report for permit application.  N R405.4.2 R405.3.2 Compliance report for certificate of occupancy.  N R405.5 R405.4 Calculation procedure.  R405.5 R405.5 R405.4 Calculation procedure.  R405.5 R405.5 R405.4 Calculation procedure.  R405.5 R405.5.2 R405.4.2 Residence specifications.  R405.5 R405.4.2 Residence specifications.  R405.5 R405.4.2 Residence specifications.  R405.5 R405.5.2 R405.4.2(1) Specification for the standard reference and proposed designs.  R405.5 R405.5.2 Table R405.4.2(2) Fefall R405.5.2  R405.5.2 R405.5.2 Calculation software tools.  R405.5 R405.5.2 R405.5.2 Specific approval.  R405.5 R405.5.2 Specific approval.  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Design	5.	1	T	Т			1	I				I
20.74 8												
Marchestand	definitions:											
Design   April   Apr	202-45 ERI											
Design   April   Apr	Reference											
20.958   Red												
design   Certificate (REC)   Certificate (RE												
202-70												
Recordable												
Energy   Certificate (RFC)												
Correctors (REC)												
A66-1	Energy											
MA	Certificate (REC)											
105-2	406.4	NI A	D40C 4	Carra	N.					Assert		
AGE-91												
				·	N							
March   Marc	406-3	NA	Table R406.2		N					Accept		
Second   S			2.000									
Accept   A	406-4	NA	R406.3		N					Accept		
NA				envelope.	14							
Accept   A	406-5	NA	R406.3.1	On-site renewables are	NI					Accept		
Mode				not included.	IN							
Main	406-6	NA	R406.3.2	On-site renewables are						Accept		
Macept   Macept   Macept   Maximum energy rating index.   N   Maximum energy rating					N					·		
AG-8	406-7	NΑ	R406 4		N					Accept		
Accept   NA										•		
Index					IV					•		
406-10 NA R406.6 Verification by approved agency.  406-11 NA R406.7 Documentation. N Accept	406-9	INA	Table K406.5		N					Ассері		
Accept   A	406 10	NA	P406 6							Accept		
406-11   NA   R406.7   Documentation.   N     Accept	400-10	INA	N400.0		N					Ассері		
Accept   A	100.11		D406 7	•								
NA   R406.7.2   Compliance report.   N					N					·		
Moin	406-12	NA	R406.7.1		N					Accept		
Accept   A				tools.	14							
Report for permit application.   Name   Report for permit application.   Name   Report for permit application.   Name   Report for a certificate of occupancy.   Name   Report for a certificate of occupance   Name   Na	406-13	NA	R406.7.2	Compliance report.	N					Accept		
Report for permit application.   Name   Report for permit application.   Name   Report for permit application.   Name   Report for a certificate of occupancy.   Name   Report for a certificate of occupance   Name   Na	406-14	NA	R406.7.2.1	Proposed compliance						Accept		
Accept   A					N					·		
Accept   A												
Report for a certificate of occupancy.	<b>1</b> 06₋15	NΛ	R406.7.2.2							Accept		
NA	400-13	INA	11400.7.2.2		NI					Ассері		
Accept   A					IN							
Certificate (REC)   N												
	406-16	NA	R406.7.3							Accept		
406-17 NA R406.7.4 Additional documentation.  406-18 NA R406.7.5 Specific approval. N Accept 406-19 NA R406.7.6 Input values. N SECTION R407 TROPICAL CLIMATE REGION COMPLIANCE PATH  407-1 NA R407.1 Scope. N AR407.2 Tropical climate region. N SECTION R408 ADDITIONAL EFFICIENCY PACKAGE OPTIONS  SECTION R408 ADDITIONAL EFFICIENCY PACKAGE OPTIONS					N		1					
documentation.   N												
Mode	406-17	NA	R406.7.4	Additional						Accept		
406-18 NA R406.7.5 Specific approval. N Accept Acce					N							
406-19 NA R406.7.6 Input values. N SECTION R407 TROPICAL CLIMATE REGION COMPLIANCE PATH  407-1 NA R407.1 Scope. N Delete Delete Delete Delete SECTION R407-2 NA R407.2 Tropical climate region. N SECTION R408 ADDITIONAL EFFICIENCY PACKAGE OPTIONS	406-18	NA	R406.7.5		N					Accept		
SECTION R407 TROPICAL CLIMATE REGION COMPLIANCE PATH  407-1 NA R407.1 Scope. N AM - Delete  407-2 NA R407.2 Tropical climate region. N SECTION R408 ADDITIONAL EFFICIENCY PACKAGE OPTIONS  SECTION R408 ADDITIONAL EFFICIENCY PACKAGE OPTIONS												
407-1 NA R407.1 Scope. N AM - Delete Delete 407-2 NA R407.2 Tropical climate region. N SECTION R408 ADDITIONAL EFFICIENCY PACKAGE OPTIONS	.50 25	,		pac raidesi	•	SECTION RANT TROPICAL CLIMATE	F REGION CO	MPHANCE	PATH	лосорс		
407-2 NA R407.2 Tropical climate region. N AM - Delete Delete  SECTION R408 ADDITIONAL EFFICIENCY PACKAGE OPTIONS	407 <sub>-</sub> 1	NΑ	P407.1	Scono	NI	SECTION NAOT INOTICAL CLIMATE	I			Doloto		
SECTION R408 ADDITIONAL EFFICIENCY PACKAGE OPTIONS												
	40/-2	INA	K4U1.2	Tropical climate region.	IN	CECTION BACK ADDITIONAL TOTAL	ICIENICY DAG			Delete		
1408-1 INA IRANS 1 IScone I N I I I I I Adopt as written I I I I I I I I I I I I I I I I I I I	100.1	I	In control	la T		SECTION R408 ADDITIONAL EFF	ICIENCY PACI					1
THOU INTO INTO INTO INTO INTO INTO INTO INTO	408-1	NA	R408.1	Scope.	N		<u> </u>		A - Adopt as written			

408-2	NA	Additional efficiency package options.	N					
408-3	NA	Enhanced envelope performance option.	N					
408-4	NA	More efficient HVAC equipment performance option.	N					
408-5	NA	Reduced energy use in service water-heating option.	N					
408-6	NA	More efficient duct thermal distribution system option.	N					
408-7	NA	Improved air sealing and efficient ventilation system option.	N					
(Code Change Submitted - RE- 14)								

				To be cor	mpleted by Chair					To be com	pleted by TAG	members
Item No.	Minnesota Code Section	"I" Code Section	Subject	Current Minnesota Amend	Description of Change	Safety & Health Value	Cost Impact	Recommendation: A Accept R - Reject AM - Amend	Recommendation A - Accept R - Reject	TAG Group Consensus	Stake- holder Consensus	Comments
				Y or N		N=None, M=Med,		Comments	AM - Amend	Y or N	Y or N	
COLOR KE	EV.											
			was state al									
	= Items that											
<b>PURPLE</b> it	em = Code (	change prop	osal submitted.									
					СНАРТЕ	R 5						
Review												
defintion: 202-5 Addition												
202-3 Addition					SECTION R501	GENERAL						
501-1		R501.1	Scope.									
501-2	MR 1322.0100 Subp.3A	R501.1.1	General.		Provides clarity as to the intent of the Energy code and Chapter 5 for Existing Buildings.							
501-3		R501.2	Compliance.									
501-4		R501.3	Maintenance.		New criteria.							
501-5	MR 1322.0030 Subp. 1-11	R501.4	Compliance.	Υ	Lists out model codes, rather than MN amended docs.			AM - Adjust references to "MN State Building Code"? Or, refer to MR 1322.0030 Subp. 1-11				
501-6		R501.5	New and replacement materials.		Guidance for materials.			A - Adopt as written.				
501-7		R501.6	Historic buildings.					Review in conjunction with MR 1300.0070 Subp. 12a Historical Building.				
					SECTION R502 A	ADDITIONS						
502-1	Subp. 3A		General.	Y	Very similar to MR 1322.0100 Subp. 3A, except that this section applies specifically to additions. It leaves the MN amendment below. This statement could be added as an amendment to R503 at R503.1.1.2  "Attic insulation shall not be installed unless accessible attic bypasses have been sealed. An attic bypass is any air passageway between a condidtioned space and an unconditioned attic."							
502-2	MR 1322.0100 Subp. 3C	R502.2	Change in space conditioning.	Υ	Adds 3 exceptions not listed in the MRE that allow the added space to be viewed with the existing for total performance.							
502-3	MR 1322.0100 Subp. 3A	R502.3	Prescriptive compliance.	Y	Specific to additions.							

					T			1		_	ı		
502-4	NA	R502.3.1	Building envelope.	N	Provides clarity for prescriptive compliance,								
				l IN	including exemption for air leakage testing.								
502-5	NA	R502.3.2	Heating and cooling		Clarity for ductwork. Exempts ductwork								
			systems.	N	extended from existing to an addition.								
502-6	NA	R502.3.3	Service hot water		Clarity for additions.								
302-0	INA	N302.3.3		N	Clarity for additions.								
			systems.										
502-7	NA	R502.3.4	Lighting.	N	Clarity for additions.								
-		_		_	SECTION R503 A	LTERATIONS						_	
503-1	MR 1322.0100	R503.1	General.		Very similar to MR 1322.0100 Subp. 3A, except								
	Subp. 3A			Υ	that this section applies specifically to								
	· ·				alterations.								
503-2	MR 1322.0100	R503.1.1	Building envelope.		Exceptions 1-3 are identical in the MRE. Siding								
303-2		N303.1.1	Building envelope.					AM - Consider adding					
	Subp. 3A			Y	is not specifically noted in the exception in the			Exception #9 from MRE.					
					'21.			<u>'</u>					
503-3	R402.3.6	R503.1.1.1	Replacement		Clarity for replacement fenestration.								
			fenestration.										
503-4		R503.1.2	Heating and cooling		Clarity for ductwork. Exempts ductwork								
-			systems.		extended from existing to an addition.								
503-5		R503.1.3	Service hot water		Clarity for alterations.								
303-3		K3U3.1.3			Clarity for alterations.								
			systems.										
503-6	MR 1322.0100	R503.1.4	Lighting.		Reduces requirement from 50% to 10%.								
	Subp. 3A, #7												
			•		SECTION R504	REPAIRS		•	-		_		
504-1		R504.1	General.										
504-2	MR 1322.0100	R504.2	Application.		Item #1 for glass is the same in MRE (item #2).								
J04-2		11304.2	Аррисаціон.		Item #2 is not located verbatim in the MRE.								
	Subp. 3A, #2 &												
	#8.				Item #3 is basically item #8 in the MRE.								
					SECTION R505 CHANGE OI	OCCUPANCY	OR USE						
505-1	MR 1322.0100	R505.1	General.		Clarity for a change of occupancy or use. No								
	Subp. 3B				longer contingent on an increased demand for								
					fossil fuel or electricity. Addresses all forms of								
					consumption and allows an exception when								
					viewing the building from a total performance								
					perspective.								
Go to Top of	Page Page												
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Proposal #	Submittal date	Section	Topic / Summary	Proposal submitted by	Agenda date for discussion	TAG consensus Support/Deny	Notes
RE-1	6/27/2023	MR 1322.0100 Subp. 2	Update scoping criteria.	Amanda Spuckler			
RE-2	6/27/2023	R301.1	Remove climate zone content outside of MN.	Amanda Spuckler	Monday, September 18, 2023	Approve	
RE-3	8/28/2023	R302	Add climatic data design conditions.	John Smith	Monday, September 18, 2023	4 Yea, 6 Nay	John Smith will revise for 99% ASHRAE criteria.
RE-3.1	9/20/2023	R302	Add climatic data design conditions. (Revised)	John Smith	Monday, November 27, 2023	12 Yea, 0 Nay	Revised proposal. Discuss with ventilation content.
RE-4	8/30/2023	R402.4.1.3	Air sealing.	Jared Johnson, Marcy Conrad Nutt	Monday, October 30, 2023		Continue discussion at 11/13 meeting. Revised proposal submitted - RE4.1.
RE-4.1	11/7/2023	R402.4.1.3	Air sealing.	Jared Johnson, Marcy Conrad Nutt	Monday, November 13, 2023	6 Yea, 6 Nay	
RE-4.2 Part A	1/10/2024	R402.4.1.3	Air sealing.	Jared Johnson, Marcy Conrad Nutt	Monday, February 5, 2024		
RE-4.2 Part B	1/10/2024	Table R405.4.2(1)	Air sealing.	Jared Johnson, Marcy Conrad Nutt	Monday, February 5, 2024		
RE-5	8/30/2023	R401.2.5	Alternative compliance. (PHIUS)	Jared Johnson, Marcy Conrad Nutt	Monday, September 18, 2023	4 Yea, 6 Nay	
RE-5.1	10/12/2023	R401.2.5	Alternative compliance. (PHIUS) (Revised)	Jared Johnson, Marcy Conrad Nutt	Monday, October 30, 2023	4 Yea, 7 Nay	Revised proposal.
RE-6	8/30/2023	Table R402.1.3	Continuous insulation.	Jared Johnson, Marcy Conrad Nutt			Author submitted revision - RE-6.1.
RE-6.1	10/9/2023	Table R402.1.3	Continuous insulation. (Revised)	Jared Johnson, Marcy Conrad Nutt			Revised proposal. Author requested to table discussion on RE-6.1 for now.
RE-7	8/30/2023	R403.6.1	Balanced ventilation.	Jared Johnson, Marcy Conrad Nutt	Monday, December 18, 2023	10 Yea, 2 Nay	Review with section R403.
RE-8	8/30/2023	R404.4	Electric ready.	Ben Rabe	Tuesday, January 2, 2024	5 Yea, 7 Nay	
RE-9	8/30/2023	R404.4	Energy storage.	Ben Rabe	Tuesday, January 2, 2024	1 Yea, 11 Nay	
RE-10	9/5/2023	R404.4	EV Charging.	Ben Rabe	Tuesday, January 2, 2024	2 Yea, 9 Nay	
RE-11	8/30/2023		Solar ready.	Ben Rabe	Tuesday, January 2, 2024	1 Yea, 11 Nay	
RE-12	8/30/2023	Table R402.1.2	Window U-Value.	Ben Rabe	Monday, September 18, 2023	5 Yea, 8 Nay	
RE-13	8/30/2023	R404.4	Electric ready.	Jonny Kocher	Tuesday, January 2, 2024	4 Yea, 7 Nay	
RE-14	8/30/2023	R408	Credit table proposal.	Jonny Kocher	Tuesday, January 16, 2024	0 Nay, 12 Nay	
RE-15	9/1/2023	<del>R202</del>	Definitions: Exhaust, HRV, Residential Building, Ventilation, Ventilation Air	Greg Metz			Move to Mechanical TAG scope.
RE-16	9/8/2023	R402.2.4	Attic access.	Steve Shold	Monday, October 2, 2023	11 Yea, 2 Abstain	Amend proposal.
RE-17	9/18/2023	R403.6.1	Remove ERV/HRV	Patrick Murray	Monday, December 18, 2023	0 Yea, 11 Nay	Review with section R403.
RE-18	9/18/2023	MRE R403.5.2, .3, .4	Remove ventilation content from Energy code.	Patrick Murray	Monday, November 27, 2023		Out of scope of Energy TAG.
RE-19.1	9/27/2023	MRE R403.5	Balanced ventilation.	Mike Moore	Monday, December 18, 2023	10 Yea, 2 Nay	Floor modification to include CZ 6 in proposal.
RE-20.1	10/23/2023	R402.2.3	Baffles.	John Smith	Monday, November 27, 2023	11 Yea, 0 Nay	Revised.
RE-21	10/23/2023	R402.1.5	Total UA Alternative.	John Smith	TBD		Proponent updating proposal, tabled for now.
RE-22	11/2/2023	R402.2.12 & .13	Sunroom / Garage insulation.	Staff	TBD		
RE-23	11/9/2023	R402.2.1	Unvented attic and unvented enclosed rafter assemblies.	Stephen Wieroniey, Randy Nicklas	Monday, November 27, 2023	0 Yea, 11 Nay	
RE-24	1/8/2024	R403.3	Duct insulation.	Steve Shold	Tuesday, January 16, 2024	11 Yea, 0 Nay	
RE-25	1/9/2024	R402.2.7	Floor insulation.	Steve Shold	Tuesday, January 16, 2024	11 Yea, 0 Nay	
RE-26	1/10/2024	Table R402.4.1.1	Floor insulation.	Steve Shold	Tuesday, January 16, 2024	12 Yea, 0 Nay	
RE-27	1/11/2024	R402.XX	Wall insulation.	Steve Shold	Tuesday, January 16, 2024	12 Yea, 0 Nay	
RE-28	1/12/2024	R402.2.1	Ceiling insulation.	Steve Shold	Tuesday, January 16, 2024	12 Yea, 0 Nay	
RE-29	1/13/2024	R502.3.2	Heating and cooling systems (for Additions).	Steve Shold	Tuesday, January 16, 2024	11 Yea, 0 Nay	
RE-30	1/14/2024	R503.1.2	Heating and cooling systems (for Alterations).	Steve Shold	Tuesday, January 16, 2024	10 Yea, 0 Nay	

Meeting Date	Item # to START meeting	Item # at END of meeting	CCP's Discussed
8/7/2023	202-1	202-76	
8/21/2023	202-77	303-1	
9/5/2023	303-2	402-14	
9/18/2023	402-15	402-15	RE-2, RE-3, RE-5, RE-12
10/2/2023	402-16	402-16	RE-12, RE-16
10/16/2023	402-16	402-26	None.
10/30/2023	402-26	402-38	RE-4
11/13/2023	402-38	402-39	RE-4.1, RE-20, RE-21
11/27/2023	402-39	402-41	RE-3.1, RE-20.1, RE-23, RE-18
12/11/2023	402-42	403-10	None.
12/18/2023	403-10	404-6	RE-17, RE-7, RE-19.1
1/2/2024	404-6	408-1	RE-8, RE-9, RE-10, RE-11, RE-13
1/16/2024	408-1	501-1	RE-14, RE-24 through RE-30
2/5/2024	501-1		