Item Number	21 ICC Code	24 ICC Code	15 MN Code	Code Section Heading/ Code Topic	Current MN Amendment?	Description of change(s) to code language	Safety & Health Value? N - None	Cost Impact? e, L - Low	Staff Recommendation: Accept/Amend/Delete	21 TAG Recommend: Accept/Amend	24 TAG Recommend: Accept/Amend	Comments:
1322-01	MR 1322.0010 Subp 1			General.	Υ	Update reference to 2024 IECC, note sections 1101.6 through 1113.1.1 as opposed to chapters 2-5.			AM - Update reference to 2024.			
1322-02	MR 1322.0010 Subp 2			Mandatory chapters.	Y	Update reference to 2024 IECC, note sections 1101.6 through 1113.1.1 as opposed to chapters 2-5.			AM - Update reference to 2024.			
1322-03	MR 1322.0010 Subp 3			Replacement chapters.	Y				A - Adopt as written			
1322-04	MR 1322.0015 Subp 1			Administration.	Y				A - Adopt as written			
1322-05	MR 1322.0015 Subp 2			Purpose.	Y				A - Adopt as written			
1322-06	MR 1322.0030 Subp 1			Generally.	Y				A - Adopt as written			
1322-07	MR 1322.0030 Subp 2			Building code.	Y				A - Adopt as written			
1322-08	MR 1322.0030 Subp 3			Residential code.	Y				A - Adopt as written			
1322-09	MR 1322.0030 Subp 4			Electrical code.	Y				A - Adopt as written			
1322-10	MR 1322.0030 Subp 5			Fuel gas code.	Y				A - Adopt as written			
1322-11	MR 1322.0030 Subp 6			Mechanical code.	Y				A - Adopt as written			
1322-12	MR 1322.0030 Subp 7			Plumbing code.	Y				A - Adopt as written			
1322-13	MR 1322.0030 Subp 8			Private sewage disposal code.	Y				A - Adopt as written			
1322-14	MR 1322.0030 Subp 9			Energy conservation code.	Y				A - Adopt as written			
1322-15	MR 1322.0030 Subp 10			Property maintenance code.	Y				A - Adopt as written			
1322-16	MR 1322.0030 Subp 11			Accessibility code.	Y				A - Adopt as written			

1000 17	1		1		1	<u> </u>			
1322-17	MR		Administrative						
	1322.0040		procedure	Υ			A - Adopt as written		
			criteria.						
1322-18	MR		Administration.						
	1322.0100			Υ			A - Adopt as written		
	Subp 1								
1322-19	MR		Scope.		Change to:				
(Code	1322.0100				"This code applies to residential buildings and associated				
Change	Subp 2				systems and equipment as defined in the Residential				
Submitted -					Provisions of the (code year and code book??).				
RE-1)					Consider repealing this altogether in favor of language in IECC				
KL 1)					"R401.1 Scope". Also could amend here to add reference to				
				Υ	accessory buildings, which are presently difficult to track. Do		AM -		
					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, RE-1 is likely not necessary.				
-									
1322-20	MR		Applicability.						
	1322.0100			Υ	NA				
	Subp 3								
1322-21	MR		Additions,		Section needs update in light of Chapter 5 Existing Buildings in				
	1322.0100		alterations,	V	'21 IECC (R503).		AAA		
	Subp 3A		renovations, or	Υ			AM - now addressed in R502.		
			repairs.						
1322-22	MR		Change in		Section needs update in light of Chapter 5 Existing Buildings in				
	1322.0100		occupancy or	Υ	'21 IECC (R505). Might not be needed.		AM - now addressed in R502.		
	Subp 3B		use.	·					
1322-23	MR		Change in space		Section needs update in light of Chapter 5 Existing Buildings in				
	1322.0100		conditioning.	Υ	'21 IECC (R502.2). Might not be needed.		AM - now addressed in R502.		
	Subp 3C		conditioning.	•	ZITIECO (NOVIII). Wilgin Not be needed.		7 How addressed III NS02.		
1322-24	MR		Mixed		See also Section C101.4.1 in 2021 IECC-C for similar model				
1322-24				Υ			AM -		
	1322.0100		occupancy.	Ť	code language. Might not be needed.		Alvi -		
4222.25	Subp 3D		6 1:						
1322-25	MR		Compliance.						
	1322.0100			Υ			A - Adopt as written		
	Subp 4								
1322-26	MR		Compliance						
	1322.0100		materials.	Υ			A - Adopt as written		
	Subp 4A								
1322-27	MR	 	Low energy		Contain is nearly the same language in the IECC-R under				
	1322.0100		buildings.	Υ	Section R402.1. Also see proposed CCP RE-34		Repeal MN amendment.		
	Subp 4B								
1322-28	MR	R103.2	Construction		This section is nearly the same as section R103.2 with slight				
	1322.0103	R103.2.1	documents.		variation. "Energy compliance path" is added. Two items in				
			2002.1101103.		the MN amendment are not in the IECC text: "Fan motor				
					horsepower and controls" and "Lighting fixture schedule with				
				Υ			Poposi MAN amondment		
				Y	wattage and control narrative". These two items have little to		Repeal MN amendment.		
					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.				

						Section 1				
	R101.2/R20	1101 1		Scope.						
				Scope.						
	R101.3	1101.2		Intent.						
	R101.5.1	1101.3		Compliance						
	111111111111111111111111111111111111111			materials.						
	R102.1.1	1101.4		Above code						
				programs.						
		1101 5		Information on						
		1101.5		construction documents.						
				Building						
				thermal						
		1101.5.1		envelope						
				depiction.						
				Solar-ready						
		1101.5.2		system.						
		1101.6		Defined terms.						
202-1	R202		R202	Definition:		Definitions are identical across codes, skip.				
				Above-grade		"A wall more than 50 percent above grade and enclosing				
				wall	N	conditioned space. This includes between-floor spandrels,	A - Adopt as writte	en A		
					IN	peripheral edges of floors, roof and basement knee walls,	A - Adopt as writte	A A		
						dormer walls, gable end walls, walls enclosing a mansard roof				
						and skylight shafts."				
202-2	R202		NA	MN Amended		Definition is in MRE as a MN Amendment, not located in				
				Definition:	Υ	2021 IECC.	Recommend to Re	epeal. R		
				Accessible		"Signifies access that requires the removal of an access panel				
202-3	R202		NA	MN Amended		or similar removeable obstruction." Definition is in MRE as a MN Amendment, not located in				
202-5	K2U2		INA	Definition:		2021 IECC.				
				Accessible,	Υ	"Signifies access without the necessity for remvoing a panel or	Recommend to Re	epeal. A		
				Readily		similar obstruction."				
202-4	R202		R202	Definition:		New definition - does not exist in the 2015 MRE.				Definitions should not
				Access (to)		"That which enables a device, appliance or equipment to be				include the word they are
						reached by <i>ready access</i> or by a means that first requires the				defining. "Ready Access" is
					N	removal or movement of a panel or similar obstruction."		A		also a defined term which
										does not include the word
										"access."
202-5	R202		R202	Definition:		Definition is in the 2015 MRE as model code language, but				We may be coming back to
				Addition		the language has been updated in the 2021 IECC.				this regarding addition as a
					N	"An extension or increase in the conditioned space floor area,		А		change from unconditioned
						number of stories or height of a building or structure."				space to conditioned space.
										Especially with Residential
	N1101 6		N1101 6	Definition:		2024 Changed language ADDITION. An extension or increase				and Multi -family
	N1101.6		N1101.6	Addition:	N	2024 Changed language. ADDITION. An extension or increase in the conditioned space floor area, number of stories or	A - Adopt as writt	on		
				Addition	IN	height of a building or structure.	A - Auopt as Will	CII		
202-6	R202		R202	Definition: Air		Definition is in the 2015 MRE as model code language, but				
	TLO2		11202	barrier		the language has been updated in the 2021 IECC. "One or				
					N	more materials joined together in a continuous manner to	A - Adopt as writte	en A		
						restrict or prevent the passage of air through the building				
						thermal envelope and its assemblies."				

202-7	R202	NA	MN Amended	<u> </u>	Definition is in MRE as a MN Amendment, not located in	T				Table and consider removing
			Definition:		2021 IECC.					after review of 403
			Air circulation,	Υ	"A means of providing space conditioning using movement of			Α		
			forced		air through ducts or plenums by mechanical means."					
	N1101.6	N1101.6	MN Amended		Definition is in MRE as a MN Amendment, not located in IRC					
	141101.0	11101.0	Definition:		chapter 11					
			Air circulation,	Υ	"A means of providing space conditioning using movement of		Repeal		Repeal	
					air through ducts or plenums by mechanical means."					
202.0	D202	N/A	forced MN Amended							
202-8	R202	NA	Definition:		Definition is in MRE as a MN Amendment, not located in					
				Υ	2021 IECC.			Repeal		
			Air, exhaust		"Air discharged from any space to the outside by the			·		
					residential ventilation system."					
	N1101.6	N1101.6	MN Amended		Definition is in MRE as a MN Amendment, not located in IRC					
			Definition:		Chapter 11		Repeal		Repeal	
			Air, exhaust		"Air discharged from any space to the outside by the		. Topos:			
					residential ventilation system."					
202-9	R202	NA	MN Amended		Definition is in MRE as a MN Amendment, not located in					unamended in MN
			Definition:		2021 IECC.					Mechanical code. Consider
			Air, outdoor	Υ	"The air that is taken from the external atmosphere, and			AM		defining outside as outdoor,
					therefore not previously circulated through the HVAC system					beyond the building
					or the conditioned space."					envelope.
	N1101.6	N1101.6	MN Amended		Definition is in MRE as a MN Amendment, not located in IRC					·
			Definition:		Chapter 11.					
			Air, outdoor		"The air that is taken from the external atmosphere, and		Repeal		Repeal	
			,,		therefore not previously circulated through the HVAC system		. Topos:			
					or the conditioned space."					
202-10	R202	NA	MN Amended		Definition is in MRE as a MN Amendment, not located in					Includes HRV's and ERV's.
			Definition:		2021 IECC.					Will include definition of
			Air-		"A system that consists of heat exchangers, blowers, filters,					ventilation. Model
			conditioning	Υ	and supply, exhuast, and return-air systems and includes any			Repeal		mechancial code. Will need a
			system		apparatus installed in connection with the system."					robust conversation
			System		apparatus installed in conflection with the system.					regarding ventilation.
	N1101.6	N1101.6	MN Amended		Definition is in MRE as a MN Amendment, not located in					regarding ventuation.
	141101.0	NIIOI.O	Definition:		2021 IECC.					
							Danaal		Danasi	
			Air-		"A system that consists of heat exchangers, blowers, filters,		Repeal		Repeal	
			conditioning		and supply, exhuast, and return-air systems and includes any					
			system		apparatus installed in connection with the system."					
	N1101.6	N1101.6	Definition: Air-		New Definition in IRC Chapter 11: AIR-HANDLING UNIT. A					
			handling unit	N	blower or fan used for the purpose of distributing supply air		A -Adopt as written		Repeal	
					to a room, space or area.					
202-11	R202	NA	Definition:		Definition is in the 2015 MRE as model code language, but					
			Alteration		the language has been updated in the 2021 IECC.					
					"Any construction or renovation to an existing structure other		A Adopt 124 Janguage (same	Amend to match		
				N	than repair or addition that requires a permit. Also, a change		A - Adopt '24 language (same			
					in a mechanical system that involves an extension, addition or		as '21).	second printing		
					change to the arrancement, type or purpose of the original					
					installation that requires a permit."					

202-12	R202	R202	MN Amended Definition: Approved Definition: Approved Agency Approved	N	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." 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	Repeal A	Adam	
202-14	R202	R202	Source Definition: Automatic		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 A - Adopt as written	А	Adopt	No Change from '21 to '24.
	N1101.6	N1101.6	Definition: Automatic Shutoff Control		New definition in IRC Chapter 11: AUTOMATIC SHUTOFF CONTROL. A device capable of automatically turning loads off without manual intervention. Automatic shutoff controls include devices such as, but not limited to, occupancy sensors, vacancy sensors, door switches, programmable time switches (i.e., timeclocks) or countdown timers.	A - Adopt as written		Accept	
(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		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 codeTabled.

202-15	N1101.6	N1101.6	MN Amended		Definition is changed in the 2024 IRC Chapter 11				
(Alternate			Definition:	٧		Network		Danasi	
Definition			Balanced	Y		Not needed		Repeal	
Submitted)			System						
	N1101.6	N1101.6	Definition:		New definition in the 2024 IRC Chapter 11. A ventilation				
			Balanced		system that simultaneously supplies outdoor				
			Ventilation	N	air to and exhausts air from a space, where the mechanical	Differing definitions in IRC		Accept	
			System		supply airflow rate and the mechanical	and IMC as amended			
					exhaust airflow rate are each within 10 percent of the average of the two airflow rates				
202-16	R202	R202	Definition:		Definitions are identical across codes.				
			Basement wall		"A wall 50 percent or more below grade and enclosing				
				N	conditioned space."	A - Adopt as written	Α		
					· ·				
	N1101.6	N1101.6	Definition:		New definition in the 2024 IRC Chapter 11: BIODIESEL BLEND.				
			Biodesel Blend	N	A homogeneous mixture of hydrocarbon oils and mono alkyl	A - Adopt as written		Accept	
					esters of longchain			7.000,00	
202.47	D202	B202	D (: :::		fatty acids.				
202-17	R202	R202	Definition: Building		Definitions are identical across codes. "Any structure used or intended for supporting or sheltering				
			Bullullig		any use or occupancy, including any mechanical systems,				
				N	service water-heating systems and electric power and lighting	A - Adopt as written	Α		
					systems located on the building site and supporting the				
					building."				
202-18	R202	R202	Definition:		Definitions are identical across codes.				
			Building site	N	"A contiguous area of land that is under the ownership or	A - Adopt as written	Α		
					control of one entity."				
202-19	R202	R202	Definition:		Definition has been updated in the '21, but identical in the				
			Building		'24.				
			thermal envelope	N	"The basement walls, exterior walls, floors, ceiling, roofs and any other building element assemblies that enclose	A - Adopt as written	Α		
			envelope		conditioned space or provide a boundary between				
					conditioned space and exempt or unconditioned space."				
202-20	R202	NA	Definition:		Definition is in 2015 MRE as unamended model code				No longer occurs in the code
			C-Factor		language and does not exist in 2021 IECC.				language.
			(thermal		"The coefficient of heat transmission (surface to surface)				
			conductance)	N	through a building component or assembly, equal to the time		Α		
					rate of heat flow per unit area and the unit temperature				
					difference between the warm side and cold side surfaces				
202.24	D202	D202	Deficial		(Btu/h ft2 × °F) [W/(m2 × K)]."				
202-21	R202	R202	Definition:	N.I	New definition not in the 2015 MRE, no change in the '24.	A Adopt as written	Δ		
			Cavity Insulation	N	"Insulating material located between framing members."	A - Adopt as written	А		
202-22	R202	R202	Definition:		New definition not in the 2015 MRE, no change in the '24.				Confirm for both potable and
		ILZ0Z	Circulating hot		"A specifically designed water distribution system where one				non-potable water? Potable
			water system		or more pumps are operated in the service hot water piping to				hot water only.
			,	N	circulate heated water from the water-heating equipment to	A - Adopt as written	А		,
					the fixtures and back to the water-heating equipment."				
202-23	R202	R202	Definition:		New definition not in the 2015 MRE, no change in the '24.				
			Climate Zone	N	"A geographical region based on climatic criteria as specified	A - Adopt as written	Α		
					in this code."				

202-24	R202	R202	MN Amended Definition: Code	N	Definition is in MRE as a MN Amendment, not located in 2021 IECC. "For purposes of this chapter, "this code" or "the code" means the Minnesota Residential Energy Code, Minnesota Rules, Chapter 1322."		Keep amendment and reference to 1322.	А		
202-25	R202	R202	Definition: Code official	N	Definitions are identical in MRE & IECC. "The officer or other designated authority charged with the administration and enforcement of this code, or a duly authorized representative."	,	A - Adopt as written	А		
	N1101.6	N1101.6	Definition: Code official	N	The definition does not exist in the 2024 IRC Chapter 11	i	Keep amendment		Keep - review with '24 online code.	
202-26	R202	R202	Definition: Commercial building	N	Definitions are identical in '15 MRE & '21, not in '24. Not needed, commercial is not in the scope of the doc. "For this code, all buildings that are not included in the definition of "Residential building.""	ı	Not needed	А		
	N1101.6	N1101.6	Common areas		New definitioon in the 2024 IRC Chapter 11: COMMON AREAS. All conditioned spaces within Group R occupancy buildings that are not dwelling units or sleeping units	,	A - Adopt as written		Accept	
202-27	R202	R202	Definition: Conditioned floor area	N	Definitions are identical across codes. "The horizontal projection of the floors associated with the conditioned space."		A - Adopt as written	А		
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 '21, and again in the '24. No substantive changes. "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 uninsulated ducts, piping or other sources of heating or cooling."		A - Adopt as written	А		
	N1101.6	N1101.6	Definition: Construction Documents		New definition in 2024 IRC Chapter 11: CONSTRUCTION DOCUMENTS. Written, graphic and pictorial documents prepared or assembled for describing the design, location and physical characteristics of the elements of a project necessary for obtaining a building permit .		A - Adopt as written		Accept	
202-29	R202	R202	Definition: Continuous air barrier	N	Definitions are identical across codes. "A combination of materials and assemblies that restrict or prevent the passage of air through the building thermal envelope."	,	A - Adopt as written	А		
202-30	R202	R202	Definition: Continuous Insulation	N	New definition in '21, same in '24. "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	А		
	N1101.6	N1101.6	Definition: Continuous Pilot	N	New definition in the 2024 IRC Chapter 11: CONTINUOUS PILOT. A pilot which, once placed in operation, is intended to remain ignited continuously until it is manually interrupted.	,	A - Adopt as written		Accept	

202-31	R202	R202	Definition: Crawl space wall	N	Definition is the same across codes (def is not in 1st printing of '21, but is in 2nd printing). "The opaque portion of a wall that encloses a crawl space and is partially or totally below grade."	A - Adopt as written	Amend to match second printing		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, not needed.	Repeal		Change "Quantity" to Volume.
202-33	R202	R202	Definition: Curtain wall	N	Definitions are identical across codes. "Fenestration products used to create an external nonloadbearing wall that is designed to separate the exterior and interior environments."	A - Adopt as written	А		
	N1101.6	N1101.6	Definition: Damper	N	New definition is in the 2024 IRC Chapter 11: A manually or automatically controlled device to regulate draft or the rate of flow of air or combustion gases.	A - Adopt as written		Accept	
202-34	R202	R202	Definition: Demand Recirculation Water System	N	Definition is in the 2015 MRE as model code language, updated in the 2021 IECC, minor change in '24, no substantive change. "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		
	N1101.6	N1101.6	Definition: Demand Response Signal	N	New definition is in the 2024 IRC Chapter 11: A signal that indicates a price or a request to modify electricity consumption for a limited time period.	A - Adopt as written		Accept	
	N1101.6	N1101.6	Definition: Demand Responsive Control	N	New definition is in the 2024 IRC Chapter 11: A control capable of receiving and automatically responding to a demand response signal.	A - Adopt as written		Accept	
202-35	R202	R202	Definition: Dimmer	N	New definition in '21, same in '24. "A control device that is capable of continuously varying the light output and energy use of light sources."	A - Adopt as written	А		
	N1101.6	N1101.6	Definition: Distribution System Efficiency (DSE)	N	New definition is in the 2024 IRC Chapter 11: A system efficiency factor that adjusts for the energy losses associated with delivery of energy from the equipment to the source of the load.	A - Adopt as written		Accept	
202-36	R202	R202	Definition: Duct	N	Definitions are identical across codes. "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		
	N1101.6	N1101.6	Definition: Duct Airflow Balancing	N	New definition is in the 2024 IRC Chapter 11: The measurement and adjustment of the delivered airflow to the intended locations.	A - Adopt as written		Accept	
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	А		
	N1101.6	N1101.6	Definition: Duct System	N	New defintion in the 2024 IRC Chapter 11. A system that consists of space conditioning equipment and ductwork , and includes any apparatus installed in connection therewith.	A - Adopt as written		Accept	

	N1101.6	N1101.6	Definition: Ductwork	N	New defintion in the 2024 IRC Chapter 11. DUCTWORK. The assemblies of connected ducts , plenums, boots, fittings, dampers , supply registers, return grilles and filter grilles through which air is supplied to or returned from the space to be heated, cooled or ventilated. Supply ductwork delivers air to the spaces from the space conditioning equipment . Return ductwork conveys air from the spaces back to the space conditioning equipment . Ventilation ductwork conveys air to or from any space.	A - Adopt as written		Accept	
202-38	R202	R202	Definition: Dwelling unit	N	Definitions are identical across codes. "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		
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		Consider modifying language to address interstitial wall space between units. Centerline of wall between units? Blower door testing application? Need to verify. Term changed to Testing Unit Enclosure Area in '24, this term is not needed.
202-39	R202	R202	Definition: Dwelling Unit Enclosure Area	N	Definition changed in the 2024 IRC Chapter 11. New definition located as Testing Unit Enclosure Area	A - Adopt as written	АМ		Consider modifying language to address interstitial wall space between units. Centerline of wall between units? Blower door testing application? Need to verify.
	N1101.6	N1101.6	Definition: Dwelling Unit Enclosure Area	N	Definition deleted in the 2024 IRC Chapter 11	Not needed		Delete	
	N1101.6	N1101.6	Definition: Emittance	N	New defintion in the 2024 IRC Chapter 11. The ratio of the radiant heat flux emitted by a specimen measured on a scale from 0 to 1, where a value of 1 indicates perfect release of thermal radiation .	A - Adopt as written		Accept	
	N1101.6	N1101.6	Defintion: Enclosed Reflective Airspace	N	New defintion in the 2024 IRC Chapter 11. An unventilated cavity with a low-emittance surface bounded on all sides by building components.	A - Adopt as written		Accept	
202-40	R202	R202	Definition: Energy analysis	N	Definitions are identical across codes. "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		
202-41	R202	R202	Definition: Energy cost	N	Definitions are identical across codes. "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		

202-42	N1101.6	N1101.6	Definition: Energy Rating Index (ERI) MN Amended	N	New defintion in the 2024 IRC Chapter 11. A numerical integer value that represents the relative energy performance of a rated design or constructed dwelling unit as compared with the energy performance of the ERI Reference Design , where an ERI value of 100 represents the energy performance of the ERI Reference Design and an ERI value of 0 represents a rated design or constructed dwelling unit with zero net energy performance. Definition is in MRE as a MN Amendment, not located in	A - Adopt as written			Energy Recovery Ventilation
			Definition: Energy Recovery Ventilator (ERV)	Υ	2021 IECC. "A device or combination of devices applied to transfer energy and moisture from the exhaust air stream for use within the dwelling."		АМ		System is in Mechanical Code.
202-43	R202	R202	Definition: Energy Simulation Tool	N	Definitions are identical across codes. "An approved software program or calculation-based methodology that projects the annual energy use of a building."	A - Adopt as written	А		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 '21 or '24 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 and possibly abuse."	Not needed.	Amend to delete		
202-45	R202	R202	Definition: ERI Reference Design	N	New definition in '21, unchanged in '24. "A version of the rated design that meets the minimum requriements of the 2006 IECC."	A - Adopt as written, I don't think we want to change the definition unless we amend the backstop of the ERI pathway.	Α		Scale is base-lined at 2006. Different iterations of IECC have updated definitions of design for ERI Pathway. May be problems 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".
	N1101.6	N1101.6	Definition: Existing Building		New defintion in the 2024 IRC Chapter 11. A building erected prior to the date of adoption of the appropriate code, or one for which a legal building permit has been issued.	A - Adopt as written		Accept	
202-46	R202	R202	Definition: Exterior wall	N	Definitions are identical across codes. "Walls including both above-grade walls and basement walls."		А		

202-47	R202	R202	Definition: Fenestration	N	Definition has been updated in the '21, and is unchanged in '24 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		
202-48	R202	R202	Definition: Fenestration product, site- built	N	Definitions are identical across codes. "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	А		
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-on-grade floors (Btu/h \times ft \times °F) [W/(m \times K)]."	A - Adopt as written	А		
	N1101.6	N1101.6	Definition: F- Factor (Thermal Transmittance)	N	Definition is the same in 2024 Model Code as old F-Factor definition. "The perimeter heat loss factor for slab-on-grade floors (Btu/h \times ft \times °F) [W/(m \times K)]."	Delete amended definition for F-Factor and Adopt as written	А	Accept	
	N1101.6	N1101.6	Definition: Fuel Gas	N	New defintion in the 2024 IRC Chapter 11. A natural gas, manufactured gas, liquified petroleum gas or a mixture of these.	A - Adopt as written		Accept	
	N1101.6	N1101.6	Definition: Fuel Oil		New defintion in the 2024 IRC Chapter 11. Kerosene or any hydrocarbon oil having a flash point not less than 100°F (38°C).	A - Adopt as written		Accept	
	N1101.6	N1101.6	Definition: Grade Plane		New defintion in the 2024 IRC Chapter 11. A reference plane representing the average of the finished ground level adjoining the building at all exterior walls. Where the finished ground level slopes away from theexterior wall, the reference plane is established by the lowest points within the area between the building and the lot line or, where the lot line is more than 6 feet (1829 mm) from the building between the structure and a point 6 feet (1829 mm) from the building.	A - Adopt as written		Accept	
	N1101.6	N1101.6	Definition: Heat Exchanger		New defintion in the 2024 IRC Chapter 11. A device that transfers heat from one medium to another.	A - Adopt as written		Accept	

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."	Repeal MN amendment.	АМ	Repeal	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)	Y	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."	Repeal MN amendment. (getting rid of ERV definition also)	АМ	Repeal	Look to definition of ERV and eliminate references to humidity.
202-52	R202	R202	Definition: Heated slab.	N	Definitions are identical across codes. "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."		А		
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	АМ		Match the second printing of the first edition.
	N1101.6	N1101.6	Definition: High Efficacy Light Sources	N	Definition does not exist in the 2024 IRC Chapter 11	Not needed. Section 1104 sets the criteria.		Repeal	
202-54	R202	R202	Definition: Historic Building	N	New definition in '21, unchanged in '24. "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."	Delete			TAG will discuss the current definition in MR 1300, TAG wants definitions to match.
202-55	R202	R202	Defintion: Infiltration	N	Definitions are identical across codes. "The uncontrolled inward air leakage into a building caused by the pressure effects of wind or the effect of differences in the indoor and outdoor air density or both."	A - Adopt as written	А		
202-56	R202	R202	Definition: Insulated siding	N	New definition in '21, unchanged in '24. "A type of continuous insulation with manufacturer-installed insulating material as an integral part of the cladding product having an R-value of not less than R-2."	A - Adopt as written	А		
202-57	R202	R202	Definition: Insulating sheathing	N	Definition are in all 3 codes, slightly updated in '21, unchagned in '24. "An insulating board with a core material having a minimum R-value of R-2."	A - Adopt as written	А		Have definition for continuous insulation, not needed.

	N1101.6	N1101.6	Definition:	I	Now definition in the 2024 IBC Chapter 14. Type of ignition				
	N11U1.0	N1101.6	Intermittent		New defintion in the 2024 IRC Chapter 11. Type of ignition that is energized when an appliance is called on to				
					5				
			Ignition	N	operate and that remains continuously energized during each	A - Adopt as written		Accept	
					period of main burner operation and where the ignition is				
					deenergized when the main burner operating cycle is				
	N1101 C	N14.404.C	Dofinition		completed.				
	N1101.6	N1101.6	Definition:		New defintion in the 2024 IRC Chapter 11. Type of ignition				
			Interrupted	N	that is energized prior to the admission of fuel to the	A - Adopt as written		Accept	
			Ignition		main burner and that is deenergized when the main flame is				
	N1101 6	N11101 C	Definition: Knee		established. Now definition in the 2024 IRC Chapter 11. An above grade				
	N1101.6	N1101.6			New defintion in the 2024 IRC Chapter 11. An above-grade				
			Wall	N.	wall assembly, or wall defined by vertical truss members, of	A Adams a		A	
				N	any height that separates conditioned space from	A - Adopt as written		Accept	
					unconditioned buffer spaces, such as ventilated attics and				
202.50	D202	D202	Definition		entry porch roofs, rather than ambient outdoors.				
202-58	R202	R202	Definition:		Definition has been updated in the '21, unchanged in the '24.				
			Labeled		"Equipment, materials or products to which have been affixed				
					a label, seal, symbol or other identifying mark of a nationally				
					recognized testing laboratory, approved agency or other				
				NI	organization concerned with product evaluation that	A Adopt of weither	۸		
				N	maintains periodic inspection of the production of such	A - Adopt as written	Α		
					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 specified purpose."				
	N1101.6	N1101.6	Definition:	NI	New defintion in the 2024 IRC Chapter 11. A fuel oil or	A Adopt as written		Accort	
			Liquid Fuel	N	biodiesel blend.	A - Adopt as written		Accept	
202-59	R202	R202	Definition:		Definitions are identical across codes.				
			Listed		"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				
				NI	maintains periodic inspection of production of listed	A - Adopt as written	Α		
				N	equipment or materials or periodic evaluation of services and	A - Adopt as written	A		
					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."				
			- 6						
202-60	R202	R202	Definition: Low-		Definitions are identical in MRE & IECC. Not in '24.				
			voltage lighting	N	"Lighting equipment powered through a transformer such as a	Not needed.	Α		
	NAAC : C		- C		cable conductor, a rail conductor and track lighting."				
	N1101.6	N1101.6	Definition: Low-	N	Definition does not exist in the 2024 IRC Chapter 11	Not needed	Α	Delete	
			voltage lighting						
	N1101.6	N1101.6	Definition:		New defintion in the 2024 IRC Chapter 11. Space within a				
			Living Space	N	dwelling unit utilized for living, sleeping, eating, cooking,	A - Adopt as written		Accept	
			D (1)		bathing, washing and sanitation purposes.				
	N1101.6	N1101.6	Definition: Low		New defintion in the 2024 IRC Chapter 11. A roof slope less				
			Slope	N	than 2 units vertical in 12 units horizontal (17 percent slope).	A - Adopt as written		Accept	
202-61	R202	R202	Definition:		Definitions are identical across codes.				
202-61	R202	R202	Definition: Manual	N	Definitions are identical across codes. "Capable of being operated by personal intervention (see	A - Adopt as written	А		

202-62	R202	NA	MN Amended Definition: Manufacturer's Installation Instructions	Υ	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?? Is this necessary?	А	Repeal	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		Repeal	Revisit amended definition
202-63	R202	NA	MN Amended Definition: Mechanical ventilation	Y	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."	Not needed as ventilation is now found in the IRC mechanical provisions		Repeal	Revisit amended definition
202-64	R202	R202	Definition: Occupant sensor control	N	New definition in '21, unchanged in '24. "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		
	N1101.6	N1101.6	Definition:Occu piable Space	N	New defintion in the 2024 IRC Chapter 11. An enclosed space intended for human activities, excluding those spaces intended primarily for other purposes, such as storage rooms and equipment rooms, that are only intended to be occupied occasionally and for short periods of time.	A - Adopt as written		Accept	
	N1101.6	N1101.6	Definition: On- Demand Pilot	N	New defintion in the 2024 IRC Chapter 11. A pilot that, once placed into operation, is intended to remain ignited for a predetermined period of time following an automatic or manual operation of the main burner gas valve, after which the pilot is automatically extinguished when no automatic or manual operation of the main burner gas valve occurs during the predetermined period of time.	A - Adopt as written		Accept	
202-65	R202	R202	Definition: On- Site Renewable Energy	N	New definition in '21, unchanged in '24. "Energy from renewable energy resources harvested at the building site."	A - Adopt as written	А		
202-66	R202	R202	Definition: Opaque door	N	New definition in '21, unchanged in '24. "A door that is not less than 50 percent opaque in surface area."	A - Adopt as written	А		
REVISIT	N1101.6	N1101.6	Definition: Plenum	N	New defintion in the 2024 IRC Chapter 11. An enclosed portion of the building structure, other than an occupiable space being conditioned, that is designed to allow air movement and thereby serve as part of the supply or return ductwork.	A - Adopt as written		Table, review with code section	
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."		АМ		Amend to add-in per second printing.
202-67		N1101.6	Definition: Proposed Design	Y	New defintion in the 2024 IRC Chapter 11. A description of the proposed dwelling unit used to estimate annual energy use for determining compliance based on simulated building performance.	A - Adopt as written		Accept	

	1 1		I= 6		Tu 16 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
1		N1101.6	Definition:		New defintion in the 2024 IRC Chapter 11. A material having a				
1			Radiant Barrier	N	low emittance surface of 0.1 or less installed in	A - Adopt as written		Accept	
					building assemblies.				
202-68	R202	R202	Definition:		New definition in '21, unchanged in '24.				Need to add definition for
1			Rated Design		"A description of the proposed building used to determine the				Energy Rating Index. Is
1					energy rating index."				referenced in the book
									indexso it may be
									somewhere.
				N		A - Adopt as written	Α		Review in tandem with "ERI
									Reference Design" definition.
									"Rated Design" mentions
									energy rating index in the
									definition. Section 406
									addresses the ERI Compliance
202.60	D202	D202	Definition		Navy definition in 124, week around in 124				Alternative.
202-69	R202	R202	Definition: Ready Access		New definition in '21, unchanged in '24. "That which enables a device, appliance or equpment to be				Matches mechanical code.
1				N	directly reached without requiring the removal or movement	A - Adopt as written	Α		
1			(to)		of any panel or similar obstruction."				
		N1101.6	Definition:		New defintion in the 2024 IRC Chapter 11. A material with a				
		N1101.0	Reflective	N	surface emittance of 0.1 or less in an assembly	A - Adopt as written		Accept	
			Insulation		consisting of one or more enclosed reflective airspaces.	7. 7.40 \$ 5.00		7.000pt	
202-70	R202	R202	Definition:		New definition in '21, updated in '24 - see next sheet entry.				Recommendation to discuss.
1			Renewable		"An instrument that represents the environmental attributes				Has been a topic in the 2024
1			Energy		of one megawatt hour of renewable energy, also known as an				IECC. Will it include utility
1			Certificate (REC)		energy attribute certificate (EAC)."				programs? Time period
1									associated with the REC
1				N.		A Adamhas with a			offsets? We should flag
Í				N		A - Adopt as written			where it shows up in the
Í									code as an option or
1									requirement.
1									
1									**Shows up in Section
									R406.7.3.
	R202	R202	Definition:		Revised definition in the 2024 IRC Chapter 11. A market-based				
			Renewable		instrument that represents and conveys the environmental				
			Energy		attributes of 1 megawatt hour of renewable electricity				
			Certificate (REC)	N	generation and could be sold separately from the underlying	A - Adopt as written		Accept	
					physical electricity associated with				
					renewable energy resources ; also known as an energy				
202-71	R202	R202	Definition:		attribute certificate (EAC). New in '21, unchanged in '24.				Do we want to limit this to
ZUZ-/1	N2U2	K2U2	Renewable		"Energy derived from solar radiation, wind, waves, tides,				options for buildings?
1			Energy	N	landfill gas, biogas, biomass, or extracted from hot fluid or	A - Adopt as written			options for buildings:
1			Resources	IN	steam heated within the earth."	A - Adopt as written			See also "On-site renewable
1			Resources		steam neated within the earth.				energy".
202-72	R202	R202	Defintion:		Definition is in the 2015, updated in the 2021, unchanged in				
		1,202	Repair		'24.				
				N	"The reconstruction or renewal of any part of an existing				
					The reconstruction of renewal of any part of an existing				

202-73	R202	R202	Definition: Reroofing	N	New definition in '21, unchanged in '24. "The process of recovering or replacing an existing roof	A - Adopt as written	A		
			Refooting	IN	covering. See "Roof recover" and "Roof replacement."	A - Adopt as written	A		
202-74 (Code Change Submitted - CCP RE-31)	R202	R202	Definition: Residential building	N	Definition has been updated in the '21, unchagned in '24. Needs amending to align with scoping of 2024 Commercial Energy Code Scoping(?). "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."	Reference 1300 - Occupancy classifications. Staff to review & amend definition, revisit RE- 31.	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. Definition in 2nd printing of '21 and in '24 are the same. "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 in '24.	АМ		Amend to include per second printing.
202-76	R202	R202	Definition: Roof Recover	N	New definition in '21, unchanged in '24. "The process of installing an additional roof covering over an existing roof covering without removing the existing roof covering."	A - Adopt as written	А		
202-77	R202	R202	Definition: Roof Repair	N	New definition in '21, unchanged in '24. "Reconstruction or renewal of any part of an existing roof for the purpose of its maintenance."	A - Adopt as written	А		Part but not the entire roof.
202-78	R202	R202	Definition: Roof Replacement	N	New definition in '21, updated in '24. "The process of removing the existing roof covering, repairing any damaged substrate and installing a new roof covering."	A - Adopt as written	А		
	R202	R202	Definition: Roof Replacement	N	Revised definition in the 2024 IRC Chapter 11. An alteration that includes the removal of all existing layers of roof assembly materials down to the roof deck and the installation of replacement materials above the existing roof deck.	A - Adopt as written		Accept	
202-79	R202	R202	Definition: <i>R</i> - Value (Thermal resistance)	N	Definitions are identical across codes. 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].		А		
202-80	R202	R202	Definition: Service water heating	N	Definitions are identical across codes. "Supply of hot water for purposes other than comfort heating."	A - Adopt as written	А		
		R202	Definition: Simulated Building Performance	N	New defintion in the 2024 IRC Chapter 11. A process in which the proposed building design is compared to a standard reference design for the purposes of estimating relative energy use to determine code compliance.	A - Adopt as written		Accept	

202-81	R202	R202	Definition: Skylight Definition: Sleeping Unit	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." New defintion in the 2024 IRC Chapter 11. A single unit that provides rooms or spaces for one or more persons, includes	Not needed.	А		The term "Skylight" is included in the definition for "Fenestration".
				N	permanent provisions for sleeping and can include provisions for living, eating and either sanitation or kitchen facilities but not both. Such rooms and spaces that are part of a dwelling unit are not sleeping units.	A - Adopt as written		Accept	
202-82	R202	R202	Definition: Solar heat gain coefficient (SHGC)	N	Definitions are identical across codes. "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	А		
		R202	Definition: Solar- Ready Zone	N	New defintion in the 2024 IRC Chapter 11. A section or sections of the roof or building overhang designated and reserved for the future installation of a solar photovoltaic or solar thermal system.	A - Adopt as written		Accept	
		R202	Definition: Space Conditioning	N	New defintion in the 2024 IRC Chapter 11. The treatment of air so as to control the temperature, humidity, filtration and distribution of the air to meet the requirements of a conditioned space.	A - Adopt as written		Accept	
		R202	Definition: Space Conditioning Equipment		New defintion in the 2024 IRC Chapter 11. The heat exchangers, air-handling units, filter boxes and any apparatus installed in connection therewith used to provide space conditioning.	A - Adopt as written		Accept	
202-83	R202	R202	Definition: Standard reference design	N	Definitions are identical across codes. "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		
		R202	Definition: Steep Slope		New defintion in the 2024 IRC Chapter 11. A roof slope 2 units vertical in 12 units horizontal (17 percent slope) or greater.	A - Adopt as written		Accept	

		R202	Definition:		New defintion in the 2024 IRC Chapter 11. Any repair ,				
			Substantial		reconstruction, rehabilitation, alteration, addition				
			Improvement		or other improvement of a building or structure, the cost of				
					which equals or is more than 50 percent of the market value				
					of the structure before the improvement. Where the structure				
					has sustained substantial damage as defined in the				
					International Building Code, any repairs are considered				
				N	substantial improvement regardless of the actual repair work	A - Adopt as written		Accept	
					performed. Substantial improvement does not include the				
					following:				
					Improvement of a building ordered by the code official to				
					· · · · · · · · · · · · · · · · · ·				
					correct health, sanitary or safety code violations. 2.Alteration				
					of a historic building where the alteration will not affect the				
202.04	2000	2000	5 (1 11)		designation as a historic building.				
202-84	R202	R202	Definition:		Definitions are identical across codes.				
			Sunroom	N	"A one-story structure attached to a dwelling with a glazing	A - Adopt as written	А		
					area in excess of 40 percent of the gross area of the	'			
					structure's exterior walls and roof."				
		R202	Definition:		New defintion in the 2024 IRC Chapter 11. The sum of the				
			Testing Unit		area of ceiling, floors and walls separating a dwelling unit or				
			Enclosure Area		sleeping unit's conditioned space from the exterior or from				
				N	adjacent conditioned or unconditioned spaces. Wall height	A - Adopt as written		Accept	
					shall be measured from the finished floor of the dwelling unit				
					or sleeping unit to the underside of the floor above.				
202.05	R202	R202	Definition:		Nov. definition in 124 weeks and in 124				Part of the Resdidential ANSI
202-85	RZUZ	K2U2			New definition in '21, unchanged in '24.				
			Thermal		"The resistance to changes in air heat as air is conveyed				380 or 301 standard for
			Distribution		through a distance of air duct. TDE is a heat loss calculation				performance compliance. If
			Efficiency (TDE)	N	evaluating the difference in the heat of the air between the air	A - Adopt as written	Α		don't do a total duct leakage
					duct inlet and the outlet caused by differences in				test, then makes more
					temperatures between the air in the duct and the duct				challenigng to gain the
					material. TDE is expressed as a percent difference between				required HERS rating. See
					the inlet and outlet heat in the duct."				appendix C.
202-86	R202	R202	Definition:		Definitions are identical across codes.				
			Thermal		"Physical and space conditioning separation from conditioned				
			isolation	N	spaces. The conditioned spaces shall be controlled as separate	A - Adopt as written	Α		
					zones for heating and cooling or conditioned by separate				
					equipment."				
202-87	R202	R202	Definition:		Definitions are identical across codes.				
			Thermostat	N	"An automatic control device used to maintain temperature at		Α		
					a fixed or adjustable setpoint."				
202-88	R202	R202	Definition:		Definitions are identical in MRE & IECC.				Includes boundary air films.
(Alternate			<i>U</i> -Factor		"The coefficient of heat transmission (air to air) through a				
Definition			(thermal	N.I.	building component or assembly, equal to the time rate of	A Adams as	۸		
Submitted)			transmittance)	N	heat flow per unit area and unit temperature difference	A - Adopt as written	Α		
					between the warm side and cold side air films (Btu/h x ft2 x °F)				
					[W/(m2 x K)]."				
202-89	R202	R202	Definition:		Definitions are unchanged across codes.				Will Revisit.
			Ventilation	A.1	"The natural or mechanical process of supplying conditioned		•		
				N	or unconditioned air to, or removing such air from, any	A - Adopt as written	А		
					space."				

202-90	R202		R202	Definition: Ventilation air	N	Definitions are identical across codes. "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."			A - Adopt as written	А		
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 - Adopt as written	А		
202-92	R202		R202	Definition: Whole house mechanical ventilation system	N	Definitions are identical across codes. "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."				А		
			R202	Definition: Work Area	N	New defintion in the 2024 IRC Chapter 11. That portion or portions of a building consisting of all reconfigured spaces as indicated on the construction documents. Work area excludes other portions of the building where incidental work entailed by the intended work must be performed and portions of the building where work not initially intended by the owner is specifically required by this code.	N		A - Adopt as written		Accept	
202-93	R202		R202	Definition: Zone	N	Definitions are identical across codes. "A space or group of spaces within a building with heating or cooling requirements that are sufficiently similar so that desired conditions can be maintained throughout using a single controlling device."				А		
			<u>I</u>			Chapter 3						
301-1	R301.1	1101.7	R301.1	Climate zones, general.	N	Minor changes to text. Same net outcome.	N	N	A - Adopt as written	АМ		Recommend that Zone 5 upgrade to Zone 6. Will coordinate.
301-2 (Code Change Submitted - RE-2) Skip	Figure R301.1		Figure R301.1	Climate zone map.	N	Updated climate zone map.			A - Adopt as written	АМ		
301-3 (Code Change Submitted - RE-2) Skip	Table R301.1	Table 1101.7	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	АМ		Amend to delete non- minnesota data.
301-4	R301.2	1101.7.1	R301.2	Warm Humid	N	No change and no affect on Minnesota. Suggest amending to			Delete	AM		Delete
Skip 301-5 Skip	R301.3	1101.7.2 (& Table)	R301.3	Counties. Climate zone definitions.	N	delete. 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	А		

301-6	Table		Table	Thermal climate		Gives cooling and heating degree days based on climate zone.						Amend to delete Zones 1-5
Skip	R301.3		R301.3	zone definitions.	N	Could amend to remove zones 1-4.			A - Adopt as written	AM		
301-7 Skip	None	1101.8	R301.4	Tropical Climate region.	N	New section with no affect on Minnesota. Suggest deleting.	Ν	N	Delete	AM		Delete
						SECTION R302 DESIGN COND	ITIONS		•			
R302-1 Skip	R302.1	1101.9	R302.1	Interior design conditions.	N	No change in '24.	Ν	N	A - Adopt as written	АМ		Amend to add exterior design conditions to match commercial energy code for climatic parameters.
R302-2 (Code Change Submitted - RE-3.1) Skip	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(?).			АМ			RE-3.1 Supported.
				•	1	SECTION R303 MATERIAL, SYSTEMS A	ND EQUIPN	IENT				
303-1	R303.1	1101.10	R303.1	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 Skip	R303.1.1	1101.10.1	R303.1.1	Building thermal envelope insulation		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	А		May need reference to '24 IRC because Table 906.2 is referenced.
303-3	R303.1.1.1	N1101.10.1 1101.10.1.1	D202 1 1 1	Building thermal envelope insulation		Minor changes. For reflective insulation, the number of reflective sheets, the number and thickness of the enclosed reflective airspaces and the R-value for the installed assembly determined in accordance with Section N1101.10.6 shall be listed on the certification. For insulated siding, the R-value shall be on a label on the product's package and shall be indicated on the certification. The insulation installer shall sign, date and post the certification in a conspicuous location on the job site. Exception: For roof insulation installed above the deck, the R-value shall be labeled as required by the material standards specified in Table R906.2. Minor changes to text. Same net outcome.	N	N	A - Adopt as written		Committee polled with unanimity to remove references to radiant/reflective barriers. John Smith to draft CCP to remove references.	
Skip	11.505.1.1.1	11101.10.1.1	11.303.1.1.1	roof insulation	N	Trainer changes to text. Same net outcome.	N	N	A - Adopt as written	Α		

303-4 Skip		1101.10.2	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		
	N1101.10.2	1101.10.2		Insulation Mark Installation.	N	Changed definition: N1101.10.2 (R303.1.2) 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 or draped products, an insulation certificate complying with Section N1101.10.1 shall be left immediately after installation by the installer, in a conspicuous location within the building, to certify the installed R-value of the insulation material. Exception: For roof insulation installed above the deck, the R-value shall be labeled as specified by the material standards in Table 1508.2 of the International Building Code or Table R906.2 of this code, as applicable.			A - Adopt as written		Accept	
303-5 Skip	R303.1.3	1101.10.3	R303.1.3	Fenestration product rating.		Modified section in '21, no change to '24: 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		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.
	Table R303.1.3(1)	Table 1101.10.3(1)	Default glazed window, glass door and skylight U- factors		No change from '21 to '24.			A - Adopt as written.			

	Table R303.1.3(2)	Table 1101.10.3(2))	Default opaque door U-factors		No change from '21 to '24.			A - Adopt as written.			
	Table R303.1.3(3)	Table 1101.10.3(3))	Default glazed fenestration SHGC and VT		No change from '21 to '24.			A - Adopt as written.			
303-6 Skip	R303.1.4	1101.10.4	R303.1.4	Insulation product rating.	N	Sentence has been restructured, no technical changes in '24.	N	N	А	А		
303-7 Skip	R303.1.4.1	1101.10.4.1	R303.1.4.1	Insulated Siding.	N	New Section in'21, unchagned in '24: 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	А		
303-8 Skip	R303.1.5	1101.10.5	R303.1.5	Air- impermeable insulation.	N	New section in '21, unchanged in '24: 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		
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.
		1101.10.6	R1101.10.6		N	New Section: Where the R-value of an enclosed reflective airspace or enclosed nonreflective airspace is used for compliance with this standard, the airspace shall be enclosed in a cavity bounded on all sides by building components and constructed to minimize airflow into and out of the enclosed airspace. Airflow shall be deemed minimized where one of the following conditions occur: 1. The enclosed airspace is unventilated. 2. The enclosed airspace is bounded on one or more sides by an anchored masonry veneer constructed in accordance with Chapter 7, and vented by veneer weep holes located only at the bottom portion of the airspace and spaced not less than 15 inches (381 mm) on center with the top of the cavity airspace closed. Exception: For ventilated cavities, the effect of the ventilation of airspaces located on the exterior side of the continuous air barrier and adjacent to and behind the exterior wall covering material shall be determined in accordance with ASTM C1363, modified with an airflow entering the bottom and exiting the top of the airspace at an air movement rate of not less than 70 mm/second.			A - Adopt as written		Table, waiting for CCP to review.	
303-10 Skip		1101.11	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	А		Adjust to reference all of 2024 IRC chapters.

303-11	R303.2.1	1101.11.1	R303.2.1	Protection of		Very minor changes to language. Same net effect.						
Skip	11303.2.1		11303.2.1	exposed foundation insulation.	N	very millor changes to language. Same net effect.	N	N	A - Adopt as written	А		
		N1101.11.2		Radiant Barrier	N	New section: Where installed, radiant barriers shall comply with the requirements of ASTM C1313/C1313M and shall be installed in accordance with ASTM C1743.	N	N	A - Adopt as written		Table, waiting for CCP to review.	
303-12 Skip	R303.3	1101.12	R303.3	Maintenance information.	N	One word changed: "accessible" label in MRE, "visible" label in IECC.	N	N	A - Adopt as written	А		
						Section 1101						
401-1	R401.1		R401.1	Scope.	N	No "scope" section in N11. May need this if Energy is stand alone book.	N	N	A - Adopt as written	А		This could replace language in MR 1322.0100 Subp. 2 "Scope".
401-2 Skip	R401.2	1101.13	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	А		
401-3 Skip	NA	1101.13.1	R401.2.1	Prescriptive option.	N	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 N1101 General, N1102 Building Thermal Envelope, N1103 Systems, N1104 Electrical Power, Lighting, and Renewable Energy Systems.				А		
401-4 Skip	NA		R401.2.2	Total building performance option.	N	This path guides the user to R405 Total Building Performance.				А		
		N1101.13.2		Total Simulated Building Performance Option	N	Modified section: The Total <u>Simulated</u> Building Performance Compliance Option requires compliance with Section N1105.	N	N	A - Adopt as written		Accept	
401-5 Skip	NA	1101.13.3	R401.2.3	Energy Rating Index (ERI) option.	N	This path guides the user to N1106 ERI option.				А		
401-6 Skip	NA	1101.13.4	R401.2.4	Tropical climate region option.	N	This path guides the user to N1107 Tropical Climate Region Compliance Path. No relevance to MN as we are not tropical.	N	N	AM - Delete section.	AM		
401-7 (Code Change Submitted - RE-5.1) Skip	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.			RE-5.1 will need to be revised by author and resubmitted for review.	А		
	N1101.13.5		N1101.13.5	Additional energy efficiency.	N	Section moved - N1108	N	N	0		Nothing needs to be done.	
401-8 Skip	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.

Start 3/10 Meeting Here	N1101.14		N1101.14	Certificate		Minor changes to section inlcuding changes 7 & 8. 7. The code edition under which the structure was permitted, the compliance path used and, where applicable, the additional efficiency measures selected for compliance with Section N1108. 8. The location and dimensions of a solar-ready zone where one is provided. SECTION 1102 BUILDING THERMA	AL ENVELOP	E	AM - Combine relevant and best language between MRE & IECC. Staff to review certificate for potential amendment. Remove requirement to post on electrical panel.		Amend, with consideration to address Performance Path documentation.	DLI will study to see if we need the amended language.
402-1 Skip	R402.1	1102.1	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.		М		А		
	R402.1	1102.1	R402.1	General	N	Some changes. N1102.1 (R402.1) General. The building thermal envelope shall comply with the requirements of Sections N1102.1.1 through N1102.1.5. one of the following: 1. Sections N1102.1.1 through N1102.1.4 and Section N1102.1.6. 2. Sections N1102.1.1, N1102.1.5 and N1102.1.6. NEW EXCEPTION - Exception #2: Log homes designed in accordance with ICC 400.			Adopt, but may want to look into ICC 400 to see if it addresses the thermal envelope.			Don will review ICC 400 to see if standard has any Energy requirements for Log homes.
402-2 Skip	NA	1102.1.1	R402.1.1	Vapor retarder.	N	Provides a pointer to R702.7.	N	N	A - Adopt as written	АМ		Add: An equivalent vapor retarder shall be provided on the warm-in-winter side of assemblies where part of the building thermal envelope.
402-3	R402.1.1	1102.1.2	R402.1.1	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.			Move MN amended waterproofing content to basement walls N1102.2.9	АМ	Adopt, may need amendment from durability research	Relocate amended language to foundation walls section and retain model code language here. Insert amended language into 402.2.8 and 402.2.10.
	R402.1.2	1102.1.2	R402.1.1	Insulation and fenestration criteria.		Minor changes by adding F-Factor to the section.			A - Adopt as written		Adopt as written	
402-4 (Code Change Submitted - RE-12) Skip			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	М	to zones other than 5-7 in b. Delete c, e, & f (highest point	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.

	R402.1.2	Table 1102.1.2		Maximum assembly U-factors and fenestration requirements.		The Table has changed dramatically. Need to review. NEW: Insulation above roof deck, Heated & Unheated Slab Ffactor. More Efficient: Vertical fenestration .30 reduce to .28 & .27, Skylight .55 reduce to .50. Less Efficient: Ceiling .024 (R-41.66) increase to .026 (R-38.46) No change: Wood frame walls, Mass wall, Floor, Basement wall, Crawl space wall.			Amend: Delete: CZ 0-5 & 8 Change: Vertical fenestration to .27 in both CZ 6 & 7		Amend	Steve draft CCP to delete CZ's not in MN, and make windows same U-factor across MN.
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.
	N1102.1.3		N1102.1.3	R-value alternative.		Minor changes to section. Added F-Factor.			A - Adopt as written		Adopt	
402-6 (Code Change Submitted - RE-6.1) Skip	Table R402.1.3		Table R402.1.1	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. RE-6.1 was tabled by author. No action taken.
402-7	Table R402.1.3	Table 1102.1.3	R402.1.1	Insulation Minimum R- values and Fenestration Requirements by Component. R-value		The Table has changed. NEW: Insulation above roof deck, Heated Slab R-value. More Efficient: Vertical fenestration .30 reduce to .28 & .27, Skylight .55 reduce to .50. Less Efficient: Ceiling R60 decrease to R49. No change: Wood frame walls, Mass wall, Floor, Basement wall, Unheated slab, Crawl space wall. This section exists in the MRE for the most part, but is			Amend: Delete: CZ 0-5 & 8 Change: Vertical fenestration to .27 in both CZ 6 & 7		Amend	Steve draft CCP to delete CZ's not in MN, and make windows same U-factor across MN.
402-7 Skip	N4UZ.I.Z		K4UZ.1.4	R-value computation.	N	expanded and clarified in the IECC. No changes between '21 & '24 codes. 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		

402-8	R402.1.4		R402.1.4	Total UA		Expands on content in MRE. Adds instruction that calculation						May need to readdress if U-
(Code	11402.1.4		11402.1.4	alternative.		must be in accord with ASHRAE Handbook of Fundamentals.						value tables adjusted for
Change				arternative.		must be in accord with Ashmae Handsbook of Fandamentals.						fenestration.
Submitted -					N		L	L	A - Adopt as written	Α		RE-21.1 voted down.
CCP RE-21)												RE-21.1 Voted down.
Skip												
SKIP	R402.1.5	N1102.1.5	R402.1.4	Total UA-		Section has been revised. '21 states "Total UA alternative",						John to submit CCP on UA
				Component		and '24 states "Component performance alternative".						backstop for prescriptive.
				Performance	N				Adopt as written.			backer for processing and
				Alternative								
	R402.4.4	N1102.1.6	None	Rooms		Not in '15, minor changes between '21 & '24.						Tabled. Forthcoming CCP
				containing fuel-		25,			Amend or delete entirely.			from Chris R.
				burning	N				Chris R to draft a CCP.			nom emis k.
				appliances.					cinis it to didit a cer.			
402-9	R402.2	1102.2	R402.2	Specific Specific		The word "(Prescriptive)" was removed in the '21. '24 expands						
Skip			1	insulation	N	to include one additional section with reference to 1102.2.3	N	N	A - Adopt as written	Α	Adopt	
о _р				requirements.		Attic knee wall.		.,	The state of the s		7 13.0 p. 0	
402-10	R402.2.1		R402.2.1	Ceilings with		This section reads essentially the same as in the MRE, except						Amend to delete first
(Code			1	attic spaces.		the R values are increased to parallel those in Table R402.1.3.						sentence. Delete "with
Change				attic spaces.		Allows a reduced insulation value where a uniform thickness						attics." RE-23 voted down.
Submitted -						of insulation can be accommodated due to an adequately tall						atties. NE 25 voted down.
CCP RE-23)						energy heel.						
Skip					N	Chergy need.	1	М	AM - Delete first sentence.	AM		
SKIP					14	Suggest deleting first sentence, as R-49 only applies to Zone 3	_	101	Aivi - Delete III st sentence.	Alvi		
						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.						
	R402.2.1	N1102.2.1	R402.2.1	Ceilings with	N	Same essence as '15 & '21, except attic insulation value has			Amend:		Amend	Steve draft CCP to delete CZ's
	11402.2.1	11102.2.1	11402.2.1	attics.	14	reduced from '21 based on Table N1102.1.3.			Delete first sentence as R38		Amena	not in MN
				attics.		reduced from 21 based off rable N1102.1.5.			does not pertain to CZ 6&7.			HOT III WIN
						Where Section N1102.1.3 requires R-38 insulation in the			Staff to draft CCP.			
						ceiling or attic, installing R-30 over 100 percent of the ceiling			Stair to draft CCF.			
						or attic area requiring insulation shall satisfy the requirement-						
						for R-38 insulation wherever the full height of uncompressed						
						R-30 insulation extends over the wall top plate at the eaves.						
						Where Section N1102.1.3 requires R-49 insulation in the						
						ceiling or attic, installing R-38 insulation over 100 percent of						
						the ceiling or attic area requiring insulation shall satisfy the						
						requirement for R-49 insulation wherever the full height of						
						uncompressed R-38 insulation extends over the wall top plate						
						at the eaves. This reduction shall not apply to the insulation						
						and fenestration criteria in Section N1102.1.2 and the						
						component performance alternative in Section N1102.1.5.						
402 44				6 11		These sections are nearly identical in both codes. There are						
402-11	R402.2.2		R402.2.2	Ceilings without	N	minor changes to the exact language in the IECC. The overall	N	N	A - Adopt as written	AM		Amend to delete section.
Skip				attic spaces.		application is the same.						
	D402.2.2	N/4/02/2/2	D402.2.2	Ceilings without		No technical changes, just minor tweaks to sentence			A Adams III		A -1 1	
	R402.2.2	N1102.2.2	R402.2.2	attics	N	structure.			A - Adopt as written		Adopt	
	None	N1102.2.3	None	Attic Knee Wall		New section			A - Adopt as written		Adopt	

		N/4402 2 2 4	T.	D (T		In			T			
	None	N1102.2.3.1	None	Roof Truss Framing Separating Conditioned and Unconditioned Space	N	New section			A - Adopt as written		Adopt	
402-12 (Code Change Submitted - CCP RE- 20.1)	R402.2.3	N1102.2.4	R402.2.3	Eave baffle	N	Language update in the '24, the overall outcome is the same. CCP RE-20.1 needs to be updated. Use "wind wash" or "insulation dam" in lieu of "baffle"			Amend to address "wind wash". John Smith & Steve S to work together updating RE-20.1.	RE-20.1 approved by TAG - 11/28.		Tabled. John & Steve work together to update CCP.
402-13 (Code Change Submitted - CCP RE-16) Skip	R402.2.4		R402.2.4	Access hatches and doors.	N	Two exceptions are added in '21 and carry into '24. Recommend deleting the second exception as it does not pertain to MN climate zones. Need to update CCP RE-16 for '24 cycle.	z	N	Amend - Delete second exception.	АМ		Amend to delete exceptions. DLI to write.
(Skip)	R402.2.4	1102.2.5	R402.2.4	Access hatches and doors.	N	Similar language. Need to update CCP RE-16 for '24 cycle.			Amend - Delete second exception. Steve S to update CCP for TAG review.			
402-14 Skip	N1102.2.5.1	1102.2.5.1	None	Access hatches and door insulation installation and retention.	N	Same effect as '21, minor changes to sentence structure.	Z	N	Adopt as written.			Amend to delete exceptions. DLI to write.
402-15 Skip	R402.2.5	1102.2.6	R402.2.5	Mass walls.	N	Similar language to the '20 MRE with revisions. No change from '21 to '24. Added an empirical specification regarding walls with a heat capacity greater than or equal to 6 Btu/SF x degrees F in '21.	N	N	A - Adopt as written			
402-16 Skip	R402.2.6		R402.2.6	Steel-frame ceilings, walls and floors.		Same content in MRE, just updated the reference to Table R402.1.2 for U-factors.	N	N	A - Adopt as written			
	R402.2.6	N1102.2.7	R402.2.6	Steel-frame ceilings, walls and floors.	N	Section updated in '24 with new content. Low impact, MN does not build residential construction with steel framing.	L	L	Adopt as written.		Adopt	
402-17 Skip	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		Adopt	

402-18 Skip	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.		
	R402.2.7	N1102.2.8	R402.2.7	Floors.		Heavily revised in '24.			A - Adopt as written	Adopt	
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.	M	L	Comment: May be subject to building science research.		
	R402.2.8	N1102.2.9	R402.2.8	Basement walls.		Same as '24. This is subject to carrying forward the MN amended content from R402.2.8. Suggest moving waterproofing content to Building code.			Amend by adding '20 MRE language to '24 language. Need CCP. Subject to Building Science Research review.	Amend: Keep R15 basement wall, allow R-10 exterior. Staff draft CCP.	
402-20 Skip	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	L	Amend - use language from '20 MRE. May be subject to building science research.		
		N1102.2.9.1		Basement wall insulation installation.		Minor changes from IECC-R			Amend - use language from '20 MRE. May be subject to building science research.	Align with 1102.2.9	
402-21 Skip	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		
	R402.2.9	N1102.2.10	R402.2.9	Slab-on-grade floors		Floor surface changes from being within 12" to grade to 24" to grade.	N	L	Adopt as written.	Adopt	

402-22 Skip	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		
	R402.2.9.1	N1102.2.10. 1	None	Slab-on-grade floor insulation installation.	N	24 similar to '21, but adds some content about full slab insulation and heated slabs.	L	L	Adopt as written.	Adopt	
	None	N1102.2.10. 2	None	Alternative slabon-grade insulation configurations	N	New section in '24. Refers to designs in 1105 Simulated Performance and 1106 ERI.	N	N	Adopt as written.	Adopt	
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.		
	R402.2.10	N1102.2.11	R402.2.10	Crawl space walls.		Only change between '21 and '24 is to the references.			Amend to refer to basement wall section.	Staff draft CCP to refer to basement wall section.	
402-24 Skip	R402.2.10.1		R402.2.10	Crawl space wall insulation installations.	N	See comments for R402.2.10 directly above.	N	N	See comments for R402.2.10 directly above.		
	R402.2.10.1	N1102.2.11. 1	None	Crawl space wall insulation installations.		24 allows insulation to be installed on inside or outside of wall. Consider amending to align with MN amended basement wall content to require insulation on exterior of wall. Subject to durability research.		L	Amend to require insulation on exterior of wall like a basement. Subject to durability research.	Staff draft CCP to refer to basement wall section.	
	N1102.2.11. 2		N1102.2.11. 2	Alternative crawl space wall insulation configerations	N	New section in '24. Refers to designs in 1105 Simulated Performance and 1106 ERI.			Adopt as written.	Adopt	
02-25 kip	R402.2.11	N1102.2.12	R402.2.11	Masonry veneer.	N	No changes.	N	N	A - Adopt as written		
02-26 kip	R402.2.12	N1102.2.13	R402.2.12	Sunroom and heated garage insulation.	N	Thermal envelope provisions for garages are now specifically addressed in the '21 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. No change from '21 to '24.	N	N	Amend - delete content regarding CZ 0-5.	Amend to remove CZs not in MN	
	None	None	N1102.3	Radiant Barriers		New section.	N	N	Adopt as written.	Adopt	
02-27 kip	R402.3	N1102.4	R402.3	Fenestration.	N	No technical changes from '21 to '24. 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	Adopt	
102-28 Skip	R402.3.1	N1102.4.1	R402.3.1	U-factor.	N	No changes.	N	N	A - Adopt as written		

402-29 R4						121 0 124					
Claire	R402.3.2	N1102.4.2	R402.3.2	Glazed		21 & '24 same content.			A Adambaa waithan asuld		
Skip				fenestration	N	Same content in '20 & '21, but added section in '21 regarding	N	N	A - Adopt as written, could		
				SHGC.		dynamic glazing. Serves no purpose in MN as we do not			also be deleted.		
100.00						regulate SHGC.					
	R402.3.3		R402.3.3	Glazed		The language is slightly different in the IECC, but the outcome			Comment: Either adopt as		
Skip				fenestration	N	is essentially the same. The SHGC content will not affect MN.	N	N	written, or amend to use		
				exemption.		Interesting use of the word "shall" vs. "may" in terms of	• •	.,	language in MRE.		
						applying the exemption.			language in wite.		
Skip R4	R402.3.3	N1102.4.3	R402.3.3	Glazed		Minor changes between '21 & '24, no substantive change.					
				fenestration							
				exemption.		N1102.4.3 (R402.4.3) Glazed fenestration exemption. Not					
						greater than 15 square feet (1.4 m 2) of glazed fenestration					
					N	per dwelling unit shall be exempt from the U-factor and SHGC			Adopt as written.		
						requirements in Section N1102.1.2. This exemption shall not					
						apply to the Total UA component performance alternative in					
						Section N1102.1.5.					
402-31 R	R402.3.4		R402.3.4	Opaque door		The language is slightly different in the IECC, but the outcome					
				exemption.	N	is essentially the same. Interesting use of the word "shall" vs.					
						"may" in terms of applying the exemption.					
Skip R4	R402.3.4	N1102.4.4	R402.3.4	Opaque door		Minor changes between '21 & '24, no substantive change.					
·				exemption.							
				·		Minor changes: Opaque door exemption. One side-hinged					
						opaque door assembly not greater than 24 square feet (2.22					
						m2) in area shall be exempt from the Ufactor requirement in			Adopt as written.		
						Section N1102.1.2. This exemption shall not apply to the					
						component performance Total UA alternative in Section					
						N1102.1.5.					
402-32 R4	R402.3.5	N1102.4.5	R402.3.5	Sunroom and		No change from '21 to '24.					A Adopt as written
	3402.3.5	N1102.4.5	K4U2.3.5			NO Change from 21 to 24.					A - Adopt as written
Skip				heated garage							
				fenestration.		Section clarifies its application to sunrooms as well as heated					
					N	garages. Heated garages are presently not explicitly	N	N			
						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.					
Skip		1111.1.1.1	R402.3.6	Replacement	N	Content in '15 moved to 1111.1.1.1 in '24, no substantive	N	N	Moved section, see 1111.1.1.1		
				fenestration.		change.		.,	1410464 3661011, 366 1111.1.1.1		
402-33 R4	R402.4		R402.4	Air leakage.		Same provision in the MRE, but now includes reference to the					
Skip					N	additional section of R402.4.5. The additional section stems	N.I	N	A - Adopt as written		
					IN	from adding R402.4.4 "Rooms containing fuel-burning	N	IN	A - Adopt as written		
						appliances".					
R	R402.4	N1102.5	R402.4	Air leakage.		Language is similar, but does not reference 1102.1.6 ('21 -			Adopt as written, but fix typo		
						R402.4.4) "Rooms containing fuel-burning appliances" as the			in code. Last reference in		
						'21 does.	N	N	paragraph should be 1102.5.5		
									not 1102.5.4		
402-34 R4	R402.4.1	N1102.5.1	R402.4.1	Building		No substantive change from '21 to '24.					
Skip	. 102.7.1	.41102.3.1		thermal		TO SUBSTRUCTE CHANGE HOTE 21 to 24.					
JKIP				envelope.	N	Same provision in the MRE, but now includes reference to the	N	N	A - Adopt as written		
				envelope.		·					
100.05						additional section of R402.4.1.3 "Leakage rate".					
	R402.4.1.1	N1102.5.1.1	R402.4.1.1	Installation.	N	No change from '20 to '21 to '24.	N	N	A - Adopt as written		
Skip									1.5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.		

402-36	Table		Table	Air barrier, air		The table is very similar to the MRE, with minor updates and						
Skip	R402.4.1.1			sealing and		clarifications.						
				insulation	N		L	L	A - Adopt as written			
				installation.								
	Table	Table	Table	Air barrier, air		Major changes to Table N1102.5.1.1						
	R402.4.1.1	N1102.5.1.1	R402.4.1.1	sealing and		- General - Same as '21.						
				insulation		- Ceiling/attic - Similar, no technical change.						
				installation.		- Walls - Same as '21.						
						- Knee wall - New section.- Windows, skylights, and doors - Changes, no longer requires						
						sealing, but refers only to MFR instructions. If a window has						
						vague installation or refers back to code, there is no						
						requirement to seal. Suggest amending.						
						- Rim joists - Similar, no technical change.						
						- Floors/Cantileverd - Changes to section.					Chris to draft CCP to	
						- Basement, crawl space, slab - No technical changes.					include air sealing	
						- Shafts/penetrations - Similar, no technical changes.			Amend Windows portion and		for windows as was	
						Narrow cavitites - Same as '21Garage separation - No technical changes.			Common Walls, leave the rest		in the '21. See	
						- Recessed lighting - No technical changes.			unamended.		R703.4.1 Staff draft CCP to	
						- Plumbing/wiring - No technical changes.					address Single	
						- Showers/tubs - Similar, adds fireplaces.					Family Attached.	
						- Electrical boxes - Section added to.						
						- HVAC registers - Insulation criteria added.						
						- Concealed sprink - Same.						
						- Common walls - All new section. Amend to remove						
						reference to "attached single family" based on draft						
						language to 13000.0070 Subp. 22a.						
						1300.0070 Sub 22a: Single-family dwelling. "Single-family						
						dwelling" means a freestanding detached residential						
						structure containing only one dwelling unit and may include						
402-37	R402.4.1.2		R402.4.1.2	Testing.		In the '21, more specific testing backstops were moved to						
Skip						R402.4.1.3 "Leakage rate". Additionally, an option is added to						
						calculate the leakage based on CFM leakage per area of the						
					N	enclosure. The latter change will help smaller dwellings pass	L	L	A - Adopt as written			
						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.						
Start 3/24	R402.4.1.2	N1102.5.1.2	R402.4.1.2	Air Leakage		Section has been revised from '21. Content has been broken						
meeting				Testing.		into essentially <i>how</i> to test, and then .3 gets into the test			Adopt as written			
here						rate.						
	NA		R402.4.1.3	Leakage Rate.		This section provides the allowable leakage rate based on						
(Code						climate zone when following the prescriptive compliance				DE 4.4 had CV		
Change Submitted -					N	option. Other compliance paths allow tradeoffs for leakage.				RE-4.1 had 6 Yeas and 6 Nays.		
RE-4.1)										and o Nays.		
Skip												

	R402.4.1.3	N1102.5.1.3	R402.4.1.2	Makimum Air Leakage Rate		This section provides the allowable leakage rate based on climate zone when following the prescriptive compliance option. Other compliance paths allow tradeoffs for leakage. Air leakage decreased from 3 ACH to 2.5 under Prescriptive path, but allows 4 ACH under performance options. Adds specific criteria for R-2 apartments.			Discuss leak rate, and using CFM/SF enclosure area instead of ACH50. If amended, remove content that is not CZ 6&7.		
402-39 Skip	R402.4.2	N1102.5.2	R402.4.2	Fireplaces.	N	No change from '21 to '24 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 Skip	R402.4.3	N1102.5.3	R402.4.3	Fenestration air leakage.	N	Same language in '15, '21 & '24.	L	L	A - Adopt as written	А	
402-41 Skip	R402.4.4	1102.1.6	None	Rooms containing fuel- burning appliances.	N	Relocated in '24, see 1102.1.6. New provision in '21.	L	М	Merits discussion	AM (Delete)	
402-42 Skip	R402.4.5	N1102.5.4	R402.4.4	Recessed lighting.	N	Minor changes in text, same net requirement and outcome. No change to '24.	L	L	A - Adopt as written	Accept	
402-43 Skip	NA		R402.4.6	Electrical and communication outlet boxes (airsealed 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	
	R402.4.6	N1102.5.5	None	Air-sealed electrical and communication outlet boxes		24 removes air leakage rate criteria (2 cfm at 75Pa). Similar net outcome.	N	N	Adopt as written		
402-44 Skip	R402.5	N1102.6	R402.5	Maximum fenestration U- factor and SHGC.	N	21 & '24 are same. 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 1103 SYSTEM	15				
403-1 Skip	R403.1	N1103.1	R403.1	Controls.	N	Same net outcome across '20, '21 & '24.	L	L	A - Adopt as written	Accept	
403-2 Skip	R403.1.1	N1103.1.1	R403.1.1	Programmable thermostat.	N	No change from '21 to '24. 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	
	R403.1.2	N1103.1.2	R403.1.2	Heat pump supplementary heat.		Changes to Model 2024 Section 1103.1.2, appears to be a similar outcome.			Adopt as written		

402 4	Taxa .		In 402 2			I			
403-4 Skip	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	
	R403.2	N1103.2	None	Hot water boiler temperature reset.		Minor changes to Model 2024 Section N1103.2	Adopt as written		
403-5 Skip	R403.3		R403.2	Ducts.	N	Specifies sections for which ducts must comply.	A - Adopt as written	Accept	
	R403.3	N1103.3	R403.2	Duct Systems	N	24 has been modified and includes reference to the mechanical code.	Adopt as written		
	None	N1103.3.1	None	Duct System Design	N	New section in '24, includes refernce to ANSI/ACCA Manual D.	Adopt as written		
Skip	R403.3.7	N1103.3.2	R403.2.3	Building cavities.	N	24 has same net outcome as '21. Relocated section from R403.3.7	A - Adopt as written		
403-6 Skip	R403.3.1	N1103.3.3	R403.3.1	Ducts located outside conditioned space.	Y	24 uses "ductwork" instead of "ducts". No substantive changes. 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 Skip	R403.3.2	N1103.3.4	R403.3.2	Ducts located in conditioned space.	Υ	'21 is a step backwards from a past code opinion given by the state 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.	in 2015 MRE, but using the IECC-R template as much as	AM - Look at requirements in '15 MRE. Need to change.	

				1							T	
	R403.3.2	N1103.3.4	R403.3.2	Duct systems		Section modified in '24 - discuss.						
				located in								
				conditioned		#1 - '21 & '24 are essentially the same.						
				space.		#2 - Adds content about vapor diffusion ports.						
						#2.1 - Similar requirement.			Staff may have CCP to update			
						#2.2 - Same net effect.			and bring forward for this			
						#3 - Same net effect.			_			
						#3.1 - Same net effect.			section.			
						#3.2 - Exception added.						
						#3.3 - Insulation value changes from R-19 to R-10 or half the						
						required insulation, whichever is greater.						
						#3.4 - Clarification for performance paths is added.						
403-8	R403.2.1		R403.3.3	Ducts buried		Details are provided here when ducts are partly or completely						
Skip				within ceiling		buried in ceiling insulation.						
экір				insulation.		buried in ceiling insulation.				AM - Look at		
				misaration.		The section is a bit confusing when also reading R403.3.1. It				requirements in '15		
					Υ	could be read to indicate that ductwork in an attic area must				MRE. Need to		
						be covered with insulation to R19? Item #1 will be			N-03 for possible clianges.	change.		
										change.		
						unecessary if we maintain current backstop of R8, and item #3						
	2402.24		D 400 0 0			has no relevance to MN.			S			
	R403.2.1	N1103.3.5		Ductwork		Details are provided here when ducts are partly or completely			Staff may have CCP to update			
				buried within		buried in ceiling insulation.			and bring forward for this			
				ceiling					section.			
				insulation								
									Delete #3 & 4 - not MN CZs			
403-9	NA			Effective R-		Gives effective duct insulation value in ceilings if using Total				AM - Look at		
Skip				value of deeply	N	Building Performance Option.	1	ı	A - Adopt as written	requirements in '15		
				buried ducts.	.,		_	-	Adopt as written	MRE. Need to		
										change.		
	R403.3.3.1	N1103.3.5.1	None	Effective R-		Similar net effect for Simulated Performance path.						
				value of deeply					Adopt as written			
				buried ducts.								
403-10	R403.3.4		R403.2.2	Sealing.		Same beginning language in both codes, however MRE				Accept - polled		
Skip						includes exceptions not located in the IECC. Discuss				group, unanimously		
					N	appropriateness of maintaining exceptions. Exception #2	L	L	Discuss	in favor of keeping		
						seems out of place to include in Energy code.				this provision in		
						, , , , , , , , , , , , , , , , , , , ,				code.		
	R403.3.4	N1103.3.6	R403.2.2	Sealing.		Minor changes to N1103.3.6. Duct sealing and testing has						
				6.		been revamped in '24. TAG opted to keep '15 language, but						
					N	should be reevaluated given the updates to the section.			Adopt as written			
						should be reevaluated given the apartes to the section.						
403-11	R403.3.4.1		R403.2.2.1	Sealed air		Same language in both codes.						
Skip	11,703.3.4.1		11.703.2.2.1	handler.	N	Jame language in both codes.	L	L	A - Adopt as written	Accept		
JKIP	N1103.3.6.1		N1103.3.6.1			Minor changes to N1103.6.3.1						
	N1103.3.0.1		141103.3.0.1	handling unit	N	ivillor changes to NTTOS.U.S.T			Adopt as written			
403-12	R403.3.5		R403.2.2	Duct testing.		Sets criteria for testing. Reference to ANSI/RESNET/ICC 380 or						
Skip	11,703.3.3			buck testing.	N	ASTM E1554 are not in the MRE.			A - Adopt as written	Accept		
JKIP	R403.3.5	N1103.3.7	R403.2.2	Duct system		Section has been updated, review.						
	1403.3.3	141103.3.7	11403.2.2	testing	N	Section has been upuated, review.			Adopt as written			
403-13	R403.3.6		R403.2.2			New requirement to test all ducts regardless of location inside						
	N4U3.3.0		N4U3.Z.Z	Duct leakage.	N	_	М	?	Discuss	Accept		
Skip						or outside of thermal envelope.			1			

	D402.2.0	N4402 2 0	D 400 2 2	ls		6 1 . 1					
	R403.3.8	N1103.3.8	R403.2.2	Duct system leakage	N	Section has been updated, some criteria moved to Table N1103.3.8.			Adopt as written		
	R403.3.6	Table	R403.2.2	Maximum Total		New Table in '24, pulls items #1-3 from '21 R403.3.6.					
		N1103.3.8		Duct System					Review with TAG.		
				Leakage					neview with 1716.		
403-14	R403.2.3	1103.3.2	R403.3.7	Building		See N1103.3.2.					
Skip				cavities.	N	Same requirement as MRE.				Accept	
403-15	R403.4	N1103.4	R403.3	Mechanical		Same requirement across codes.					
Skip				system piping	N		N	N	A - Adopt as written	Accept	
				insulation.							
403-16	R403.4.1	N1103.4.1	R403.3.1	Protection of		Nearly identical to MRE, minor tweaks to wording.					
				piping	N		N	N	A - Adopt as written	Accept	
				insulation.							
	R403.4.1	N1103.4.1	R403.3.1	Protection of		Minor changes to N1103.4.1, adds an aspect of maintenance.					
				piping					Adopt as written		
				insulation.							
403-17	R403.5	N1103.5	R403.4	Service hot	N	Same content across codes. References have been updated.	N	N	Adopt as written	Accept	
Skip	D 402 F 4	N4402 E 4		water systems.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			·	·	
403-18	R403.5.1	N1103.5.1	None	Heated water		New content in '21, no substantive change in '24.					
Skip				circulation and	N				Adopt as written	Accont	
				temperature maintenance	IN				Adopt as written	Accept	
				systems.							
403-19	R403.4.1		R403.5.1.1	Circulation		Expands on provisions in MRE.					
Skip	11.00.1.2		100.511.1	systems.	N	Expands on provisions in twite.				Accept	
J	R403.5.1	N1103.5.1.1	R403.4.1	Circulation		Changes to section, review.					
				systems.					Adopt as written		
403-20	R403.5.1.1.1	N1103.5.1.1	None	Demand		New content in '21 IECC.					
Skip		.1		recirculation	N					Accept	
				water systems.							
	R403.5.1.1.1	N1103.5.1.1	None	Demand		Changes to section, review.					
		.1		recirculation	N				Adopt as written		
				water systems.							
403-21	NA	N1103.5.1.2	R403.5.1.2	Heat trace	N	No substantive change to '24.			Adopt as written	Accept	
Skip				systems.		New content in '21.					
403-22	R403.5.2		R403.4.2	Hot water pipe	N	Slightly revised content. MRE Table R403.4.2 is removed from				Accept	
Skip	D403 F 3	N4402 5 0	D402.4.2	insulation.		IECC.					
Skip	R403.5.2	N1103.5.2	R403.4.2	Hot water pipe insulation.	N	Minor changes, same net effect.			Adopt as written		
	No table	Table	Table	Minimum Pipe		Table is new in '24. Review.					
	NO table	N1103.5.2	R403.4.2	Insulation	N	Table 13 HeW III 24. Neview.			Adopt as written		
		141103.3.2	11403.4.2	Thickness	IN				Adopt as writter		
403-23	R403.5.3	N1103.5.3	NA	Drain water		No change in '24.				Chris R. review with	
Skip				heat recovery	N	New provision in '21.			Adopt as written	Plumbing content	
				units.	•					for regulations.	

402.24	D402.6		D 400 F			THE ISSUED OF THE ISSUED OF THE ISSUED	1				
	R403.6		R403.5	Mechanical		The IECC-R references the IRC or IMC for Mechancial					
Skip				ventilation.		Ventilation requirements.				D II DE47 7 0	
(Code					.,					Polled RE17, 7, &	
Change					Υ					19.1. Consider zone	
Submitted -										6?	
RE 18 & RE-											
19.1)											
	R403.6	N1103.6	R403.5	Mechanical		Minor changes in text, same net requirement and outcome.			Adopt as written		
				ventilation.					Adopt as written		
403-25	R403.6.1		R403.5.5	Heat or energy		The IECC now requires HRV/ERV in CZ 7 & 8.					
Skip				recovery							
(Code				ventilation.						Polled RE-17, 7, &	
Change					Υ		L	L	A - Adopt as written	19.1. Consider zone	
Submitted -										6?	
RE-7 & RE-											
17)											
	R403.6.1	N1103.6.1	R403.5.5	Heat or energy		Changes to N1103.6.1 including adding climate zone 6					
				recovery					Adopt as written		
				ventilation.					ria ope as written		
403-26	R403.6.2		NA	Whole-dwelling		Sets fan efficacy ratings.					
Skip	11403.0.2			mechanical		Sets fair efficacy rutings.					
ЗКІР				ventilation						Polled RE-17, 7, &	
					N					19.1. Consider zone	
				system fan						6?	
				efficacy.							
	R403.6.2	N1103.6.2	R403.5.7	Fan efficacy for		Change to title and minor changes to section N1103.6.2					
	11403.0.2	11103.0.2	11403.3.7	whole-house		Change to title and minor changes to section N1103.0.2					
				mechanical							
					N				Adopt as written		
				ventilation	N				Adopt as written		
				systems and							
				outdoor							
402.27	T 1.1		T 1.1	ventilation							
	Table		Table	Whole-dwelling		Sets fan efficacy ratings. Restructured table compared to					
Skip	R403.6.2		R403.5.1	mechanical		MRE, some increases to fan efficacy requirements in '21.					
				ventilation	N					Accept	
				system fan							
				efficacy.							
	Table	Table	Table	Fan Efficacy for		Change to title and table					
	R403.6.2	1103.6.2	R403.5.1	whole-house							
				mechanical							
				ventilation	N				Review with TAG.		
				systems and	IV				Neview with TAG.		
				outdoor air							
				ventilation							
				systems							
403-28 Skip	R403.6.3		NA	Testing.	N	New requirement to test ventilation system.				Accept	
	R403.6.3	N1103.6.3	NA	Testing.		Major changes to Section 1103.6.3, review.			Review with TAG.		
	1.703.0.3	.11105.0.5		resumb.		inajor ananges to section 1103.0.3, review.			neriew with IAG.		

		1	1	1			1	ı			
	None	N1103.6.4	None	Intermitten		New section in '24.					
				exhuast control							
				for bathrooms					Adopt as written		
				and toilet							
				rooms							
403-29	R403.7	N1103.7	R403.5.17	Equipment		No change in '24.					
				sizing and	Υ	Similar requirement, but now sets a backstop for replacement			Adopt as written	Accept	
				efficiency	'	equipment to meet minimums set by federal law.			Adopt as written	Ассері	
				rating.							
	None	N1103.7.1	None	Electric-		New provision.					
				resistance space					Adopt as written		
				heating							
403-30	R403.8		R403.7	Systems serving		Minor changes to language, same net outcome.					
Skip				multiple	N					Amend to ASHRAE	
				dwelling units.	IN					reference.	
	R403.8	N1103.8	R403.7	Systems serving		Minor changes to section, same net outcome. Will need to					
				multiple		delete or amend, since we do not adopt the IECC-C provisions.			Adopt as written		
				dwelling units.					Adopt as written		
	None	N1103.9	None	Mechanical		New in '24 - requiremens for systems outside.					
				systems located							
				outside the					Adopt as written		
				building					Adopt as written		
				thermal							
				envelope							
	None	N1103.9.1	None	Heating outside		New in '24 - requiremens for heat outside.					
				a building					Adopt as written		
403-31	R403.9	N1103.9.2	R403.8	Snow melt and		Minor changes to language, same net outcome.					
Skip				ice system	N		L	L	A - Adopt as written	Accept	
				controls.							
	None	N1103.9.3	None	Roof and gutter		New section.					
				deicing controls					Adopt as written		
				_							
	None	N1103.9.4	None	Freeze-		New section.					
				protection					Adopt as written		
				system controls					·		
402.22	D402.40	N1102 10	D402.0	En org:		No substantivo changes in 124					
403-32	R403.10	N1103.10	R403.9	Energy		No substantive changes in '24.					
Skip				consumption of	N	Similar section between codes, refers to subsections for	L	L	A - Adopt as written	Accept	
				pools and spas.		additional stipulations.					
402.22	D402.0.1	N1103.10.1	D402 10 1	Hostors		Everands on provisions in MDE to require quitable to be within all					
403-33	R403.9.1	N1103.10.1	K403.10.1	Heaters.	N	Expands on provisions in MRE to require switch to be within 3'	L	L	A - Adopt as written	Accept	
403-34	R403.9.2		R403.10.2	Time switches.		of heater. Minor changes to language, same net outcome.					
Skip	11403.3.2		11403.10.2	Time Switches.	N	inition changes to language, same net outcome.	L	L	A - Adopt as written	Accept	
Skip	R403.9.2	N1103.10.2	R403 10 2	Time switches.		No substantive changes.			A - Adopt as written		
403-35	R403.10.3	N1103.10.2		Covers.		No substantive change in '24.			7. Adopt as writter		
Skip	11,403.10.3	111103.10.3	11,400.5.5			'21 moves exception for pool cover from 70% to 75% of					
JIMP					N	energy sourced from heat pump or on-site renewable energy.	L	L	A - Adopt as written	Accept	
						chergy sourced from fleat partip of off-site reflewable effergy.					
	1	1	1	1			1		1		

							1				
403-36	NA	N1103.11	R403.11	Portable spas.		No substantive changes in '24.					
					N	New criteria in '21, sets requirements for electric powered			Adopt as written	Accept	
						portable spas.					
403-37	NA	N1103.12	R403.12	Residential		No substantive changes in '24.					
				pools and		New criteria in '21, sets requirements for electric powered					
				permanent	N	permanent spas.			Adopt as written	Accept	
				residential spas.						·	
				· ·							
	None	N1103.13	None	Gas fireplaces	N	New section in '24			Adopt as written		
	None	N1103.13.1	None	Gas fireplace		New section in '24					
				efficiency	N				Adopt as written		
	•		•			SECTION R404 ELECTRICAL POWER AND	LIGHTING S	YSTEMS		•	
404-1	R404.1		R404.1	Lighting		Now requires ALL lighting to be high efficacy, rather than 75%					
Skip				equipment.	N	as in '15 MRE.	L	L	A - Adopt as written	Accept	
	R404.1	N1104.1	R404.1	Lighting		24 new criteria for lumens to watt for efficacy.					
				equipment.	N				Adopt as written		
		Table		Lighting Power		New Table in '24.					
		N1104.1		Allowance for							
				Building					Adopt as written		
				Exteriors							
404-2	R404.1.1		None	Exterior		New regs for exterior lighting. Consider implications of					
1012	11.1.1.1		Tronc	lighting.		scoping, and whether we need to add accessory buildings (IRC-				Amend to ASHRAE	
					N	IV) to list if garages accessory to IRC-I - III are included in	L	L		reference.	
						definition for Residential Building. Points user to IECC-C.				reference.	
	R404.1.1	N1104.1.1	None	Exterior lighting		Minor changes in '24					
	N404.1.1	N1104.1.1	None	Exterior lighting		Willion Changes III 24			Adopt as written		
	None	N1104.1.2	None	Exterior lighting		New section in '24					
				power					Adopt as written		
				requirements							
	None	N1104.1.3	N1104.1.3	Exterior lighting		New section in '24					
	None	11104.1.5	11104.1.3	power		The W Section III 24			Adopt as written		
				allowance					raope as written		
	None	N1104.1.4	N1104.1.4	Additional		New section in '24					
	None	141104.1.4	11104.1.4	exterior lighting		New Section in 24			Adopt as written		
									Adopt as written		
404-3	R404.1.1		R404.1.2	power Fuel gas lighting		Same requirement.					
	N404.1.1		11404.1.2			Jame requirement.	NI NI	NI NI	A Adopt as written	Accont	
Skip				equipment.	N		N	N	A - Adopt as written	Accept	
	R404.1.2	N1104.1.5	R404.1.1	Gas lighting	N	Minor change in '24 adding content about pilot light.			Adopt as written		
404-4	R404.1.2 R404.2	111104.1.3	NA	Interior lighting	IV	New req for dimmers, occupancy sensors, or other controls.			Adopt as writter		
	N4U4.2		INA		N	ivew requoi diffiliers, occupancy sensors, or other controls.				Accept	
Skip	D404.3	N11104.3	NIA	controls.		Destructuring of coetion in 13.4					
	R404.2	N1104.2	NA	Interior lighting controls.		Restructuring of section in '24.			Adopt as written		
	None	N1104.2.1	None	Habitable		New section in '24					
	None	111104.2.1	None			INEW SECTION III 24			Adopt as written		
	None	N1104.2.2	None	spaces Specific		New section in '24					
	None	111104.2.2	None	locations		INCW SCUIDITITI 24			Adopt as written		
404-5	R404.3		None	Exterior lighting		New req for exterior lighting.					
	N4U4.3		None			ivew req for exterior lightning.				Accont	
Skip				controls.	N					Accept	
								<u> </u>			

	R404.3	N1104.3	None	Exterior lighting		Restructuring of section in '24.					
		11220113	TTO THE	controls		The structure of section in 2 in			Adopt as written		
									•		
	R404.3	N1104.3.1	None	Controls for		Minor changes to N1104.3.1 (exterior lighting controls)					
				individual					Adopt as written		
CI.	210		D404.4	dwelling units							
Skip 404-6	NA		R404.4	NA		Proposed CCPs to be added in part under R404.4 pertaining to					
(Code						new electrical provisions.					
Change											
Submitted -											
RE-											
8,9,10,10.1,											
11,13)											
	None	N1104.4	None	Renewable		New section in '24					
				energy							
				certificate (REC)							
				documentation.							
405-1	R405.1		R405.1	Isaana		SECTION R1105 SIMULATED BUILDING	3 PERFORM	ANCE T	T		
Skip	K4U3.1		K405.1	Scope.	N	Minor changes to paragraph. Adds energy usage for mechanical ventilation.				Accept	
ЭКІР	R405.1	N1105.1	R405.1	Scope.		24 now indicates 1105 path for R-2,3,4 is limited to dwelling					
				осорс.		units.					
405-2	R405.2		R405.3	Performance-		Sets backstop at 2009 IECC.					
Skip				based	N					Accept	
				compliance.							
	R405.2	N1105.2	R405.3	Simulated		Changes to title and criteria.					
				building	N				Review with TAG.		
				performace 							
405.2	Table		NIA	compliance	N	Table was idea was sinking its make that would be weat instead of					
405-3 Skip	Table R405.2		NA	Requirements for total	N	Table provides prescriptive items that must be met instead of previously used headings "Mandatory" sprinkled throughout					
SKIP	11403.2			building		'15 MRE.				Accept	
				performance.		13 WHE.					
	Table	Table	Table	Requirements		Title changed from "Total" to "Simulated". Changes made to					
	R405.2	N1105.2		for Simulated		table also.			Deview with TAC		
				Building					Review with TAG.		
				Performance							
405-4	R405.3		R405.4	Documentation.	N	Essentially same in '21, changes to numbering of subsequent				Accept	
Skip	D 46 = 5	114 5 2 7 7	D 467- 1			sections.					
	R405.3	N1105.3	R405.4	Compliance		Section has been updated. Review.			Deview with TAC		
				documentation.					Review with TAG.		
405-5	R405.3.1	N1105.3.1	R405.4.1	Compliance		Deleted in '24.					
Skip	11403.3.1	141103.3.1	11403.4.1	software tools.	N	'15 & '21 Same.			Accept	Accept	
405-6	R405.3.2	N1105.3.2	R405.4.2	Compliance		Deleted in '24.					
Skip				report.		The report in the '21 is expanded and breaks it into the permit					
					N	app report and that which is needed to obtain CofO.			Accept	Accept	
						Additional information is needed for the reports.					

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405-7	R405.3.2.1	N1105.3.2.1	None	Compliance		Deleted in '24.						
Skip				report for	N.	The report in the '21 is expanded and breaks it into the permit			Accept	A		
				permit	N	app report and that which is needed to obtain CofO.			Accept	Accept		
				application.								
405-8	R405.3.2.2	N1105.3.2.2	None	Compliance		Deleted in '24.						
	K4U5.5.2.2	N1105.5.2.2	None	· ·								
Skip				report for	N	The report in the '21 is expanded and breaks it into the permit			Accept	Accept		
				certificate of	.,	app report and that which is needed to obtain CofO.			recept	песере		
				occupancy.								
405-9	R405.4		R405.5	Calculation		References slightly adjusted subsections.						
Skip	1.103.1		1.103.3	procedure.	N	Therefore singificity adjusted subsections.				Accept		
ЗКІР	D 405 4	NI440E 4	D 405 5									
	R405.4	N1105.4	R405.5	Calculation		Section has been updated. Review.			Review with TAG.			
				procedure.								
405-10	R405.4.1		R405.5.1	General.	N	Same language.				Accont		
Skip					IN					Accept		
	R405.4.1	N1105.4.1	R405.5.1	General	N	Section has been updated. Review.			Review with TAG.			
405-11	R405.4.2		R405.5.2	Residence		Nearly the same except references different numbering of						
Skip	11403.4.2		11403.3.2	specifications.	N	section.				Accept		
ЗКІР	D405.4.2	NI440E 4.3	D 405 5 3									
	R405.4.2	N1105.4.2	R405.5.2	Residence		Section has been updated. Review.			Review with TAG.			
				specifications.								
405-12	Table		Table	Specification for		Some updates to table - values and references to more						
Skip	R405.4.2(1)		R405.5.2(1)	the standard		efficient U-values. N Dehumidistat is now included.						
	(-,		(-,	reference and								
					N					Accept		
				proposed								
				designs.								
	Table	Table	Table	Specification for		Section has been updated. Review.						
	R405.4.2(1)	N1105.4.2(1	R405.5.2(1)	the standard								
	` ')	, ,	reference and								
		,		proposed					Review with TAG.			
				designs.								
405-13	Table		Table	Default		Same tabular values.						
Skip	R405.4.2(2)		R405.5.2(2)	distribution								
				system								
				efficiencies for	N		N	N	A - Adopt as written	Accept		
				proposed								
				designs.								
		Table	Table	Default		Section has been updated. Review.						
	R405.4.2(2)	N1105.4.2	R405.5.2(2)	distribution								
		(2)	,	system								
		. /		efficiencies for					Review with TAG.			
				proposed								
				designs.								
405-17	R405.5.3		R405.6.3	Input values.	N	Same content.	N	N	A - Adopt as written	Accept		
Skip					IN		IN	13	A - Adopt as writter	лесері		
	R405.5.3	N1105.4.3	R405.6.3	Input values.		References have been updated.			Adopt as written			
405-14	R405.5		R405.6	Calculation		Same statement, different section numbering referenced.						
			1		N	statement, amerene section numbering referenced.	N	N	A - Adopt as written	Accept		
Skip	D 405 5	NI4405 5	D 405 C	software tools.					+			
	R405.5	N1105.5	R405.6	Calculation		Section has been updated. Review.			Review with TAG.			
				software tools.								
405-15	R405.5.1		R405.6.1	Minimum	NI .	Same content.	N.I	N.I	A Adopt as writter	Accept		
Skip				capabilities.	N		N	N	A - Adopt as written	Accept		
2 P	1		1			1		I				

	D405 5 4	N440F F 4	D405 C4	N 411		Continuity in the construction of the depth of the construction of					
	R405.5.1	N1105.5.1	R405.6.1	Minimum		Section has been updated. Review.			Review with TAG.		
405.46	2405.6.0	2405.5.0	2405.60	capabilities.							
	R405.6.2	R405.5.2	R405.6.2	Specific	N	Same content.	N	N	A - Adopt as written	Accept	
Skip	D 405 5 3	N4405 5 3	D 405 6 3	approval.		D. L. J. 124			·	•	
	R405.5.2	N1105.5.2	R405.6.2	Specific		Deleted in '24			Accept		
		114405 5 0		approval.							
		N1105.5.2		Testing required		Section deleted in '24 and replaces "Specific Approval" from					
				by software		'21.			Accept		
				vendors							
		N1105.5.3		Algorithms not		New section in '24			Accept		
				tested					лесере		
		N1105.5.4		Compliance		New section in '24			Accept		
				reports					Ассерт		
		N1105.5.4.1		Compliance		New section in '24					
				reports for					Accept		
				permit					Accept		
				application							
		N1105.5.4.2		Compliance		New section in '24					
				reports for							
				certificate of					Accept		
				occupancy							
				,		SECTION R1106 ENERGY RATING INDEX CON	MPLIANCE AL	TERNATIVE			
Discuss		I					T				
definitions:											
202-45 ERI											
Reference											
Design											
202-68											
Rated											
design											
202-70											
Renewable											
Energy											
Certificate											
(REC)											
406-1	R406.1		NA	Scope.	N					Accept	
Skip										1	
	R406.1	N1106.1		Scope.	N	Section has been updated. Review.			Review with TAG.		
406-2	R406.2		NA	ERI Compliance.	N					Accept	
Skip					••						
	R406.2	N1106.2		ERI Compliance.	N	Section has been updated. Review.			Review with TAG.		
					14				Neview with IAG.		
406-3	Table		NA	Requirements							
Skip	R406.2			for energy	N					Accept	
				rating index.							
	Table	Table		Requirements		Section has been updated. Review.					
	R406.2	N1106.2		for energy	N				Review with TAG.		
				rating index.							
406-4	R406.3		NA	Building							
Skip				thermal	N					Accept	
				envelope.							
				3 C.Opc.							

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	R406.3	N1106.3		Building		Section has been updated. Review.			
				thermal	N		Review with TAG.		
				envelope.					
406-5	R406.3.1		NA	On-site					
Skip				renewables are	N			Accept	
-				not included.					
	R406.3.1	N1106.3.1	NA	On-site		Deleted in '24			
	11400.3.1	11100.3.1	INA	renewables are	N1	Deleted III 24	Deview with TAC		
					N		Review with TAG.		
				not included.					
406-6	R406.3.2		NA	On-site					
Skip				renewables are	N			Accept	
				included.					
	R406.3.2	N1106.3.2	NA	On-site		Deleted in '24			
				renewables are	N		Review with TAG.		
				included.					
406-7	R406.4		NA	Energy Rating					
Skip				Index.	N			Accept	
OKIP	R406.4	N1106.4	NA	Energy Rating		Section has been updated. Review.			
	11400.4	141100.4	13/		N	Section has been apaated. Neview.	Review with TAG.		
1000	D406 5		NIA	Index.					
406-8	R406.5		NA	ERI-based	N			Accept	
Skip				compliance.					
	R406.5	N1106.5	NA	ERI-based	N	Section has been updated. Review.	Review with TAG.		
				compliance.			neview with the		
406-9	Table		NA	Maximum					
Skip	R406.5			energy rating	N			Accept	
				index.					
	Table	Table	NA	Maximum		Section has been updated. Review.			
	R406.5	N1106.5		energy rating	N	'	Review with TAG.		
				index.					
406-10	R406.6		NA	Verification by					
Skip	11.400.0			approved	N			Accept	
ΣΚΙΡ					IN			Ассері	
	D406.6	N4406 6	N. A	agency.		Defended by the second detail Devices			
	R406.6	N1106.6	NA	Verification by		References have been updated. Review.			
				approved	N		Adopt as written		
				agency.					
406-11	R406.7		NA	Documentation.	N			Accept	
Skip					.,,				
	R406.7	N1106.7	NA	Documentation.	N	Minor change in '24.	Adopt as written		
					IN		Adopt as writteri		
406-12	R406.7.1		NA	Compliance	8.1			A	
Skip				software tools.	N			Accept	
	R406.7.1	N1106.7.1	NA	Compliance		Section has been updated. Review.			
				software tools.	N		Review with TAG.		
406-13	R406.7.2		NA	Compliance					
	N400.7.2		INA		N			Accept	
Skip	D406 7.3	N4406 7 3	NIA	report.		Adia and alamana in 124			
	R406.7.2	N1106.7.2	NA	Compliance	N	Minor changes in '24.	Adopt as written		
				report.			,		
406-14	R406.7.2.1		NA	Proposed					
Skip				compliance					
				report for	N			Accept	
				permit					
				application.					

Comparison Part P		D406 7 2 4	N4406 7 2 4	Into	In	Ι	Minor show and in 124	 	<u> </u>			
Page		R406.7.2.1	N1106.7.2.1	NA	Proposed		Minor changes in '24.					
Page												
Mark						N			Adopt as written			
Mail					1 ²							
Accept A												
April	406-15	R406.7.2.2		NA	Confirmed							
Mode	Skip				compliance							
Age					report for a	N				Accept		
Mole					certificate of							
Mole					occupancy.							
Complained Com		R406.7.2.2	N1106.7.2.2	NA			Section has been updated. Review.					
Review with FAG. Review with												
AG-16 NAG-7.3 NA Renewable Renew									Review with TAG.			
March Marc									neview with this.			
Accept A												
Skip Ra06,7.3 N106,7.3 NA Renewable energy certificate (REC) documentation. N Section has been updated. Review. Review with TAG.	4 06-16	P406.7.3		NΑ								
certificate (REC) documentation. R406.7.3 N106.7.3 NA Renewable energy certificate (REC) documentation. R406.7.4 N1106.7.4 NA Additional commentation. R06-17 R406.7.4 N1106.7.4 NA Additional documentation. N No change in '24. Adopt as written Accept Adopt as written Accept Acce		11400.7.5										
Additional Add	ЭКІР											
Review with TAG. Review TAG.						N				Accept		
Review with TAG. Review with					documentation.							
energy certificate (REC) documentation. 406-17 R406.7.4 N1106.7.4 NA Additional documentation. N No change in '24. 406-18 R406.7.5 NA Specific Spiroval. N No change in '24. 406-19 R406.7.6 NA input values. N Input values. N Input values. N Input values. N Input values. 407-10 R407.1 R407.1 NI107.1 NA Scope. N Obes not pertain to MN climate zones. SECTION N1107 TROPICAL CLIMATE REGION COMPLIANCE PATH 407-2 R407.2 N1107.2 NA Tropical climate region. N Input value N Input value. N Delete SECTION N1108 ADDITIONAL EFFICIENCY REQUIREMENTS 408-1 R408.1 None Scope. N N N SECTION N1108 ADDITIONAL EFFICIENCY REQUIREMENTS												
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406-17 R406.7.4 N1106.7.4 NA Additional documentation. N No change in '24. 406-18 R406.7.5 NA Specific approval. N No change in '24. 406-19 R406.7.6 NA Input values. N Input		K400.7.3	N1106.7.3	INA			Section has been updated. Review.					
406-17 R406.7.4 N1106.7.4 NA Additional documentation. N No change in '24. 406-18 R406.7.5 NA Specific approval. N No change in '24. 406-19 R406.7.6 NA Input values. N No change in '24. 406-19 R406.7.6 NA Input values. N No change in '24. 407-1 R407-1 R407-1 R407-1 NA Scope. N Does not pertain to MN climate zones.												
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406-18 R406.7.5 NA Specific approval. N No change in '24. 406-19 R406.7.6 NA Input values. N Minor change to '24. 406-19 R406.7.5 N N1106.7.6 NA Input values. N Minor change to '24. 407-1 Skip R407.1 N1107.1 NA Scope. N Does not pertain to MN climate zones. AM - Delete Delete Skip R407.2 R407.2 N1107.2 NA Tropical climate region. N Siope Nof Reflectance and Emmitance Options N Scope. N Sope Roof Reflectance and Emmitance Options N None Scope. N N Scope S					documentation.							
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A06-19 R406.7.6 NA Input values. N Maccept R406.7.6 N1106.7.6 NA Input values. N Minor change to '24. SECTION N1107 TROPICAL CLIMATE REGION COMPLIANCE PATH ACCEPT ACCEPT Accept Accept Accept Accept Accept Adopt as written BECTION N1107 TROPICAL CLIMATE REGION COMPLIANCE PATH AM - Delete Delete Delete Delete Skip Table N1107.2 NA Tropical climate region. Skip Table N1107.2 Slope Roof Reflectance and Emmittance Options AM - Delete A - Adopt as written Accept Accept												
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AM - Delete Skip		R407.1	N1107.1	NA	Scope.	N	Does not pertain to MN climate zones.		AM - Delete	Delete		
Skip Table N1107.2 Slope Roof Reflectance and Emmitance Options SECTION N1108 ADDITIONAL EFFICIENCY REQUIREMENTS 408-1 R408.1 None Scope. N												
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SECTION N1108 ADDITIONAL EFFICIENCY REQUIREMENTS 408-1 R408.1 None Scope. N									AM - Delete			
SECTION N1108 ADDITIONAL EFFICIENCY REQUIREMENTS 408-1 R408.1 None Scope. N					Emmitance				, avi Delete			
408-1 R408.1 None Scope. N					Options							
408-1 R408.1 None Scope. N												
I I I I I I I I I I I I I I I I I I I							SECTION N1108 ADDITIONAL EFFICIENCE	CY REQUIREMENTS				
Skin I Adopt to written	408-1	R408.1		None	Scope.	N			A - Adopt as written			
	Skip					.,						
R408.1 N1108.1 None Scope. Minor changes. Adopt as written		R408.1	N1108.1	None	Scope.		Minor changes.		Adopt as written			

408-2 Skip	R408.2		None	Additional efficiency package	N				
	R408.2	N1108.2	None	options. Additional energy efficiency credit requirements		Section has been updated. Review.	Review with TAG.		
	None	Table N1108.2	None	Additional Efficiency		New content. Review.	Review with TAG.		
408-3	R408.2.1		None	Requirements Enhanced envelope performance option.	N				
	R408.2.1	N1108.2.1	None	Enhanced building thermal envelope options		Section has been updated. Review.	Review with TAG.		
		N1108.2.1.1	None	Enhanced building thermal envelope performance		New content. Review.	Review with TAG.		
		N1108.2.1.2	None	Improved fenestration		New content. Review.	Review with TAG.		
		Table N1108.2.1.2	None	Improved Fenestration		New content. Review. Consider deleting CZ other than 6 & 7.	Review with TAG. Potentially amend.		
		N1108.2.1.3		Roof solar reflectance index		New content. Review.	Review with TAG.		
		N1108.2.1.3		Aged solar reflectance		New content. Review.	Review with TAG.		
		N1108.2.1.4	None	Reduced air leakage		New content. Review.	Review with TAG.		
408-4 Skip	R408.2.2		None	More efficient HVAC equipment performance option.	N				
	R408.2.2	N1108.2.2	None	More efficient HVAC equipment performance option.		Section has been updated. Review. Consider deleting items #6-14 - does not pertain to CZ 6&7.	Review with TAG. Potentially amend.		
		N 1108.2.2.1	None	More Efficient HVAC Equipment for Climate Zone 4.		Does not pertain to MN climate zones.	Delete section		

408-5	R408.2.3		None	Reduced energy			1		
Skip	K4U8.2.3		None	use in service					
экір				water-heating	N				
				option.					
	R408.2.3	N1108.2.3	None	Reduced enery		Section has been updated. Review.			
				use in service					
				water-heating			Review with TAG.		
				options.					
		Table	None	Service Water		New content. Review.			
ı		N1108.2.3		Heater			Review with TAG.		
				Efficiencies					
		N1108.2.3.1	None	Compact hot		New content. Review.			
				water			Designation with TAC		
				distribution			Review with TAG.		
				system option					
		Table	None	Internal Volume		New content. Review.			
1		N1108.2.3.1		of Various					
ı				Water			Review with TAG.		
1				Distrbution					
ı				Tubing					
		N1108.2.3.1	None	Water volume		New content. Review.	Review with TAG.		
		.1		determination			Review with TAG.		
408-6	R408.2.4		None	More efficient					
Skip				duct thermal	N				
				distribution	14				
				system option.					
	R408.2.4	N1108.2.4	None	More efficient		New content. Review.			
				thermal			Review with TAG.		
				distribution			Neview with 1716.		
				system options					
	R408.2.5		None	Improved air					
Skip				sealing and					
ı				efficient	N				
ı				ventilation					
	D400 3 5	N/440C 2 5		system option.		N D. :			
	R408.2.5	N1108.2.5	None	Improved air		New content. Review.			
				sealing and			Davies will TAG		
				efficient			Review with TAG.		
				ventilation					
		N1108.2.6	None	system options		New content. Review.			
1		141100.2.0	None	Energy efficient appliances		ivew content. Review.	Review with TAG.		
		Table	None	Minimum		New content. Review.			
		N1108.2.6	140110	Efficiency		The Contests Review.			
		141100.2.0		Requirements:			Review with TAG.		
				Appliances					
		N1108.2.7	None	Renewable		New content. Review. Consider removing option?			
1		. 11100.2.7		Energy		The Content Review. Consider removing option:	Review with TAG.		
		N1108.2.8	None	Demand		New content. Review.			
1		111100.2.0					Review with TAG.		

		N1108.2.8.1	None	Single-stage		New content. Review.		T		
		N1108.2.8.1	None	HVAC system		New Content. Neview.		Review with TAG.		
				controls				Neview with TAG.		
		N1108.2.8.2	None	Variable-		New content. Review.				
		N1100.2.0.2	None			New Content. Neview.				
				capacity and				Davis annuith TAC		
				two-stage HVAC				Review with TAG.		
				system conrols						
		_	None	Opaque walls		Does not pertain to MN climate zones.		Delete		
		N1108.2.10	None	Whole-home		New content. Review.		Review with TAG.		
				lighting control						
		N1108.2.11	None	Higher efficacy lighting		New content. Review.		Review with TAG.		
(Code				118111111111111111111111111111111111111						
Change										
Submitted -										
RE-14)										
Review										
defintion:										
202-5										
Addition										
, taareron				l l		SECTION N1109 EXISTING BUILDIN	GS - GENERAL			
501-1	R501.1	N1109.1	None	Scope.		No changes.		Adopt as written	Accept as written	
	R501.1.1	N1109.1.1	MR	General.		Provides clarity as to the intent of the Energy code and		,	'	
			1322.0100			Chapter 5 for Existing Buildings.		Adopt as written	Accept as written	
			Subp.3A							
501-3	R501.2		None	Compliance.						
Skip									Accept as written	
	R501.2	N1109.2	None	Compliance		Section has been updated. Change code references to MN				
						State Building Code.		Amend		
501-4	R501.3	N1109.3	None	Maintenance.		No changes.				
Skip								Adopt as written	Accept as written	
	R501.4	N1109.4	MR	Compliance.		Section deleted, content moved to N1109.2.				
Skip			1322.0030		Υ	,		Accept	Accept as written	
Jp			Subp. 1-11		·					
501-6	R501.5	N1109.4	None	New and		No changes.				
Skip	= - =			replacement		0		Adopt as written	Accept as written	
				materials.						
501-7	R501.6	N1109.5	None	Historic		No changes.		Review in conjunction with		
				buildings.		Review in conjunction with MR 1300.0070 Subp. 12a Historical		MR 1300.0070 Subp. 12a	Accept as written	
						Building.		Historical Building.	1300pt do Wilcom	
	None	N1109.6	None	Change in space		New section, review in conjunction with MR1322.0100 Subp.				
		11223.0		conditioning.		3C & 4B.		Adopt as written, pull		
								language out of 1322.		
			1	<u> </u>		SECTION N1110 ADDITION	INS			
						SECTION NITTO ADDITION	/143			

		T								
502-1	R502.1		MR	General.		Very similar to MR 1322.0100 Subp. 3A, except that this				
Skip			1322.0100			section applies specifically to additions. It leaves the MN				
			Subp. 3A			amendment below. This statement could be added as an				
					Υ	amendment to R503 at R503.1.1.2			A	
					Y	"Attic insulation shall not be installed unless accessible attic			Accept as written	
						bypasses have been sealed. An attic bypass is any air				
						passageway between a condidtioned space and an				
						unconditioned attic."				
	R502.1	N1110.1	MR	General		Section has been updated. No longer addresses the unaltered				
	11302.1	11110.1	1322.0100	General		portion of the building, see N1109.1.1 for that content.		Adopt as written		
			Subp. 3A			portion of the building, see NT103.1.1101 that content.		Adopt as written		
502-2	R502.2		MR	Change in space		Adds 3 exceptions not listed in the MRE that allow the added				
302-2	K302.2		1322.0100		Υ	space to be viewed with the existing for total performance.			Accept as written	
				conditioning.	Ť	space to be viewed with the existing for total performance.			Accept as written	
	DE02.2	N4440 2	Subp. 3C	Cl ·		S 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
	R502.2	N1110.2	MR	Change in space	.,	Section deleted and moved to N1109.6.				
			1322.0100	conditioning.	Υ			Accept		
			Subp. 3C							
502-3	R502.3		MR	Prescriptive		Specific to additions.				
Skip			1322.0100	compliance.	Υ				Accept as written	
			Subp. 3A							
	R502.3	N1110.2	MR	Prescriptive		Minor changes.				
			1322.0100	compliance.	Υ			Adopt as written		
			Subp. 3A							
502-4	R502.3.1		None	Building	N	Provides clarity for prescriptive compliance, including			Accept as written	
Skip				envelope.	IN	exemption for air leakage testing.			Accept as written	
	R502.3.1	N1110.2.1	None	Building		Minor changes.				
				thermal	N			Adopt as written		
				envelope						
502-5	R502.3.2		None	Heating and		Clarity for ductwork. Exempts ductwork extended from				
Skip				cooling systems.	N	existing to an addition.			Accept as written	
	R502.3.2	N1110.2.2	None	Heating and		Minor changes.				
				cooling systems.	N			Adopt as written		
502-6	R502.3.3	N1110.2.3	None	Service hot		Minor changes.				
				water systems.	N			Adopt as written	Accept as written	
502-7	R502.3.4	N1110.2.4	None	Lighting.	N	No substantive change in '24.		Adopt as written	Accept as written	
	None	N1111.1.5	None	Additional		New content. Review.			·	
		_		efficiency credit						
				requirements						
				for substantial				Review with TAG.		
				improvements						
				provements						
						SECTION N1111 ALTERATION	ONS			
503-1	MR		R503.1	General.		Very similar to MR 1322.0100 Subp. 3A, except that this				
555 1	1322.0100				Υ	section applies specifically to alterations.			Accept as written	
	Subp. 3A				•	section applies specifically to differentions.			Accept as Writter	
503-2	MR		R503.1.1	Building		Exceptions 1-3 are identical in the MRE. Siding is not				
303°Z	1322.0100		11303.1.1	envelope.	Υ	specifically noted in the exception in the '21.		AM - Consider adding	Accept as written	
	Subp. 3A			envelope.	ı	specifically floted in the exception in the 21.		Exception #9 from MRE.	Accept as writter	
	Jupp. 3A									

	N1111.1.1	N1111.1.1	Building	Changes to title and major changes to N1111.1.1	1 1		
	N1111.1.1	N1111.1.1	thermal	Changes to title and major changes to N1111.1.1			
503-3	R402.3.6	R503.1.1.1	envelope Replacement	Clarity for replacement fenestration.			
303-3	K402.5.0	K303.1.1.1	fenestration.	Clarity for replacement fenestration.		Accept as written	
	N1111.1.1.1	N1111 1 1 1	Fenestration	Minor changes to section N1111.1.1.1			
	IVIIII.I.I.I	141111.1.1.1	alterations	Williof Changes to Section NTTT.T.T.			
		N1111 1 1 2	Roof, ceiling	New section in Model 2024 Chapter 11.			
		111111111111111111111111111111111111111	and attic	New Section in Model 2024 Chapter 11.			
			alterations				
		N1111 1 1 3	Above-grade	New section in Model 2024 Chapter 11.			
		111111111111111111111111111111111111111	wall alterations	New Section in Model 2024 Chapter 11.			
		N1111.1.1.4		New section in Model 2024 Chapter 11.			
		1411111111	alterations	New Section in Model 2024 Chapter 11.			
		N1111.1.1.5	Below-grade	New section in Model 2024 Chapter 11.			
			wall alterations				
		N1111.1.1.6	Air barrier	New section in Model 2024 Chapter 11.			
503-4		R503.1.2	Heating and	Clarity for ductwork. Exempts ductwork extended from			
			cooling systems.	existing to an addition.			
	N1111.1.2	N1111.1.2	Heating and	Major changes to section N1111.1.2			
			cooling systems.				
		N1111.1.2.1	Ductwork	Clarity for ductwork. Exempts ductwork extended from			
				existing to an addition.			
			Systems sizing	New section in Model 2024 Chapter 11.			
		N1111.1.2.3	Duct system	New section in Model 2024 Chapter 11.			
			leakage				
		N1111.1.2.4		New section in Model 2024 Chapter 11.			
503-5		R503.1.3	Service hot	Clarity for alterations.		Accept as written	
F02.6	140	D502.4.4	water systems.	D. I		•	
503-6	MR	R503.1.4	Lighting.	Reduces requirement from 50% to 10%.			
	1322.0100					Accept as written	
	Subp. 3A, #7						
		N1111.1.5	Additional	New section in Model 2024 Chapter 11.			
		C.1.111.V	efficiency credit	New Section in Model 2024 Chapter 11.			
			requirements				
			for substantial				
			improvements				
			improvements				
FO4 1	1 1	DE04.1	Conoral	SECTION R504 REPAIRS		Accort as written	
504-1 504-2	MR	R504.1 R504.2	General. Application.	Item #1 for glass is the same in MRE (item #2).		Accept as written	
304-2	1322.0100	N3U4.2	Аррисации.	Item #2 is not located verbatim in the MRE.			
				Item #2 is not located verbatim in the MRE.		Accept as written	
	Subp. 3A, #2 & #8.			item #3 is basically item #6 in the lyine.			
	α πο.			SECTION R505 CHANGE OF OCCUPANCY	OR LISE		
				SECTION NOUS CHAINGE OF OCCUPANCY	ON OUL		

505-1	MR	R505.1	General.	Clarity for a change of occupancy or use. No longer			
	1322.0100			contingent on an increased demand for fossil fuel or			
	Subp. 3B			electricity. Addresses all forms of consumption and allows an		Accept as written	
				exception when viewing the building from a total performance			
				perspective.			