

New Changes in the 2018 International Code TAG Review Worksheet

Model Code: 2018 IBC

To be completed by Chair								To be completed by TAG members				
90.1-2019 Section	90.1-2016 Section- if different	Related IECC Section	Subject	Current Minnesota Amend	Description of Change	Safety & Health Value	Cost Impact	Recommendation A - Accept R - Reject AM - Amend or Comments	Recommendation A - Accept R - Reject AM - Amend	TAG Group Consensus	Stakeholder Consensus	Comments
				Y or N		N=None, L=Low M=Med, H=High	Y or N			Y or N		
Chapter 3	DEFINITIONS											
Chapter 4												
Chapter 5												
5.4.3.1			Air Tightness		Increased air tightness requirements for new buildings.			AM				
5.5.3.1			Roof Insulation (Curbs)		Language revised to required minimum R-10 at skylight curbs and other roof curbs.			AM				
5.5.3.2			Above Grade Wall Insulation		Eliminating non-applicable conditions and requiring that buidling wall insulation shall be either exterior or integral to the wall and not on the interior side.			AM				
5.5.3.3			Below Grade Wall Insulation		Adding language to require insulation to either be located on the exterior side of the wall or integral to the wall, eliminating the option for interior insulation.			AM				
5.5.3.5			Slab-on-Grade Floor Insulation		Adding language to require insulation to be located on the exterior side of the foundation. Adding requirement for minimum R-5 continuous insulation under slabs at conditioned spaces.			AM				
5.5.3.7			Below Grade Slab-on-Ground Insulation		Adding language to require continuous insulation below all slabs-on-grade whether located at ground level or below ground level.			AM				
Chapter 6												
6.1.1.4			Prohibition of Heating Commercial Parking Garages		Relocation and clarification of MS 216C.20, Subpart 3 which prohibits heating of commerical parking facilities.			AM- Discuss				
6.4.2.1			Load Calculations/ Weather Design Conditions		Incorporate specific climatic data design conditions into the model code. Current MN Energy Code establishes the indoor temperature for heating at 72F and for cooling at 75F. [C302.1] Climatic Data Design Conditions are currently included in C403.1.1. Proposed climatic data is unchanged from the 2020 Minnesota Energy Code criteria.			Discussed and Tabled. Existing MN Amendment to Section and Table C403.1.1 has values for cities that most closely approximate the values for...Consider tying to ASHRAE Standard 169-2020.				
6.4.3.4.2 Exceptions		C403.7.7	Ventilation System- Shutoff Damper Controls		Modify exceptions to clarify requirements for non-motorized dampers.			AM- J Smith- Discuss				
Table 6.4.3.4.3			Maximum Damper Leakage		Table modified allowing for nonmotorized dampers where the capacity is 300 cfm or less for outdoor air intake for all buildings and for exhaust/relief on buildings three or more stories in height.			John Smith to draft code change proposal for future discussion.				

New Changes in the 2018 International Code TAG Review Worksheet

Model Code: 2018 IBC

To be completed by Chair									To be completed by TAG members			
90.1-2019 Section	90.1-2016 Section- if different	Related IECC Section	Subject	Current Minnesota Amend	Description of Change	Safety & Health Value	Cost Impact	Recommendation A - Accept R - Reject AM - Amend or Comments	Recommendation A - Accept R - Reject AM - Amend	TAG Group Consensus	Stakeholder Consensus	Comments
				Y or N		N=None, L=Low M=Med, H=High	Y or N			Y or N		
6.4.4.1.2		C403.11	Duct Insulation and Sealing		MN Amended the IECC related section C403.11 extensively to address sealing requirements for low pressure, medium pressure, and high pressure ductwork. Discuss if this is relevant to move forward into the new code.			John Smith to draft code change proposal for future discussion. Chris Rosival looking to add insulating exhaust duct for some locations. Chris Rosival to work with John to craft a code change proposal. Consider also deleting exception 4.				
6.4.8			DX- Dedicated Outdoor Air Systems		Change definition to require a dedicated system, including air distribution when 100% OA. Systems will typically include energy recovery unless the air is used as make-up air for exhausts that do not permit energy recovery. System controls cycle off the fans when there is no call for heating or cooling.			AM- Review entire proposal and discuss. Burk				
6.5.1.1.4			Air Economizer Dampers		Return Air dampers requirement modified to comply with 6.4.3.4.3 without specific reference to requirements for motorized dampers only. Non-motorized dampers will now be allowed to meet those requirements. The result is less restrictive. (Air Damper Leakage)			John Smith to Review and provide future comment.				
6.5.3.1.3			Fan Efficiency		Section modified. Need to review/discuss. Scoping and exceptions changed.			Tabled				
6.5.3.6 & 6.5.3.7			Fan Efficacy Requirements		Add fan efficacy requirements for typically smaller fans not covered by Section 6.5.3.6.			AM- Tabled (Burk)				
6.5.6.1.2 Exception 6			Exhaust Air Recovery-Exception 6 Loophole		Discuss modifying exception 6 to eliminate the loophole allowing circumventing of energy recovery for nearly every project.			AM- Discuss				
Tables 6.5.6.1.2-1 and 6.5.6.1.2-2		Table C403.7	Exhaust Energy Recovery Tables		MN Amended previous table. Sonar includes discussion regarding low efficacy at very cold temperatures and outdoor ventilation air < 30%. Discuss modifying the ASHRAE Tables or not.			Tabled				
6.5.6.1.2			Other than Non-transient Dwelling Units		Modified from previous language found in 6.5.6.1 to include new reference to Table 6.5.6.1.2-1 for ventilation systems operating at more than 8,000 hours per year. (Note: 8760 hours in a year) Discuss major loophole in Exception 6.			Tabled for next meeting. John Smith to research and provide feedback for review.				
			Exceptions modified		Exceptions 4 and 5 changed "heating energy recovery" and "cooling energy recovery" to Enthalpy Energy Recovery. Exception 9 added for indoor pool dehumidifiers complaint with Section 6.5.6.4			Tabled for next meeting. John Smith to research and provide feedback for review.				
Chapter 7 Service Water Heating												
Chapter 8 Power												
Chapter 9 Lighting												

New Changes in the 2018 International Code TAG Review Worksheet

Model Code: 2018 IBC

To be completed by Chair									To be completed by TAG members			
90.1-2019 Section	90.1-2016 Section- if different	Related IECC Section	Subject	Current Minnesota Amend	Description of Change	Safety & Health Value	Cost Impact	Recommendation A - Accept R - Reject AM - Amend or Comments	Recommendation A - Accept R - Reject AM - Amend	TAG Group Consensus	Stakeholder Consensus	Comments
				Y or N		N=None, L=Low M=Med, H=High	Y or N			Y or N		
Chapter 10 Other Equipment												
Chapter 11 Energy Cost Budget Method												
Renewables: Multiple sections												
Addenda												
Addendum a												
6.5.3.7			Low Power Fans		New section added			A				
6.5.3.8			Ventilation Design		Just renumbered			A				
Table 6.5.3.7			Minimum Fan Efficacy for Low-Power Fans		New Table			A				
Addendum c												
6.3.2			HVAC System Criteria		Changing hotel/motel guest rooms to residential spaces and the HVAC capacity threshold from 15,000 Btu/h to 7,000 Btu/h. Creates a separate reference to 6.4.3.3 for residential spaces other than hotel/motel guest rooms.			A				
6.4.3.3			Off-hours controls		Adding exceptions to automatic shut-down requirement when the system is equipped with programmable thermostats or equivalent.			A				
Addendum d												
3.2			Definitions		Add definition for <i>Parking Garage Section</i> such that sections have separate atmospheres			A				
6.4.3.4.5			Parking Garage Ventilation Systems		Separate ventilation required fo reach garage section. Control systems shall reduce airflow rates to 20% or less of design capacity when contaminants are below thresholds. Fans shall only demand 30% of the design wattage at 50% air flow rate.			A				
Addendum f												
Table 6.5.1-2			Increased efficiency table to eliminate requirement for economizers		No change in climate zones 6A or 7.			R				
Addendum g												
6.5.1.1.5			Relief of Excess Outdoor Air		Adds requirements specific to relief air requiring fans and dampers to prevent overpressurization of buildings.			A				

New Changes in the 2018 International Code TAG Review Worksheet

Model Code: 2018 IBC

To be completed by Chair									To be completed by TAG members			
90.1-2019 Section	90.1-2016 Section- if different	Related IECC Section	Subject	Current Minnesota Amend	Description of Change	Safety & Health Value	Cost Impact	Recommendation A - Accept R - Reject AM - Amend or Comments	Recommendation A - Accept R - Reject AM - Amend	TAG Group Consensus	Stakeholder Consensus	Comments
				Y or N		N=None, L=Low M=Med, H=High	Y or N			Y or N		
Addendum h												
4.2.1.1			New Buildings		Adds a clarifier for BPF to clarify that the number is based upon gross floor area.			A				
Addendum i												
G3.1.2.10			Exhaust Energy Recovery		Added exception for systems serving laboratory HVAC zones with a total exhaust volume greater than 15,000 cfm.			A				
Addendum k												
11.5.2			HVAC Systems		Add an exception under Item (h) to fan system efficiency allowing for extra power when energy recovery is provided but not required....making it viable.			A				
Addendum l												
Table G3.1			Modeling Requirements for Calculating Proposed and Baseline Building Performance		Revisions provide supplemental modeling guidance for simplification of complex models with respect to modeling glazing.			A				
Addendum m												
6.4.3.4.1			Stair and Elevator Shaft Vent Dampers		Specifies Elevator shafts instead of referring to all shafts. Added exception for nonmotorized gravity back draft dampers for buildings less than three stories.			A				
Addendum n												
6.5.2.6			Ventilation Air Heating Control		Adds an exception that only applies to Zones 0 through 4.			R				
Addendum p												
3.2			Definitions		Clarifies that LPA can apply to lighting power allowance for both exterior and interior lighting, separately.			A				
9.1.2			Lighting Alterations		Language simplified to clarify that new and altered work must comply with the current requirements. Repair work for maintenance is not alteration work and repairs do not constitute a basis for upgrade to new requirements.			A				
9.1.2.1			Lighting Alterations for Interior Building Spaces		New section establishing a threshold for requiring compliance for interior lighting alterations work when the change exceeds 2000 watts.			A				

New Changes in the 2018 International Code TAG Review Worksheet

Model Code: 2018 IBC

To be completed by Chair									To be completed by TAG members			
90.1-2019 Section	90.1-2016 Section- if different	Related IECC Section	Subject	Current Minnesota Amend	Description of Change	Safety & Health Value	Cost Impact	Recommendation A - Accept R - Reject AM - Amend or Comments	Recommendation A - Accept R - Reject AM - Amend	TAG Group Consensus	Stakeholder Consensus	Comments
				Y or N		N=None, L=Low M=Med, H=High	Y or N			Y or N		
9.1.2.2			Lighting Alterations for Exterior Bulding Areas		New section establishing a threshold for requiring compliance for exterior lighting alterations work when the number of luminaires altered is 10 or more, or the retrofitted linear luminaires is more than 20 feet.			A				
9.1.4			Interior and Exterior Luminaire Wattage		Insert new item (f) to clarify that the wattage of a retrofitted luminaire includes both the wattage of the new light source plus the wattage of the driver.			A				