

# 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						Y or N	Y or N	
	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- See Addendum cd. John Smith researching				
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) <b>Discuss major loophole in Exception 6.</b>			Tabled for next meeting. See Addendum cd				
			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.				
<b>Addendum p</b>												
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				
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				
<b>Addendum q</b>												
Table G3.7			Performance Rating Method- Lighting Power Density Allowances		Modified for clarity with no material change.			A				
<b>Addendum r</b>												
6.4.3.3.3			Optimum Start Controls		Change adds an exception for residential spaces not required to have optimum start controls.			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		
<b>Addendum s</b>												
3.2			Definitions		New added definitions for North-Oriented, South-oriented, East-Oriented, and West-Oriented.			A				
5.5.3.1.1			Roof Solar Reflectance and Thermal Emittance		Scoping only affects Climate Zones 0-3			A				
5.5.3.21			Above Grade Wall Insulation		Clarification of requirements when a wall consists of both above-grade and below-grade portions.			A				
5.5.3.2.2			Wall Solar Reflectance and Thermal Emittance		Scoping only affects Climate Zone 0			A				
Table 11.5.1			Modeling Requirements for Calculating Design Energy Cost and Energy Cost Budget		Revised to include roof solar reflectance and above grade wall solar reflectance and thermal emittance.			A				
12			Normative References		Adds ASTM C1353-11; ASTM C1371-15; ASTM C1549-16; ASTM E408-13			A				
C1.2.1			Roofs		Reflectance changed to non-italicized			A				
C3.5.5			Building Envelope		Reflectance changed to non-italicized			A				
C3.5.5.1			Shading		Reflectance changed to non-italicized			A				
C3.6			Calculation of Base Envelope Performance Factor		Reflectance changed to non-italicized; Added criteria for above grade wall surface reflectance and thermal emittance.			A				
Table G3.1			Modeling Requirements for Calculating Design Energy Cost and Energy Cost Budget		Reflectance changed to non-italicized; Added criteria for above grade wall surface reflectance and thermal emittance.			A				
<b>Addendum w</b>												
G3.1.3.7			Type and Number of Chillers		Clarification of design parameters.			A				
<b>Addendum af</b>												
Table G3.1			Modeling Requirements for Calculating Design Energy Cost and Energy Cost Budget. Item 6 Lighting		Proposed building interior lighting will use Space-by Space method if the use is known and Building Area Method if the use is not known. Lighting criteria clarified for baseline building.			A				
			Non-tradable surfaces		Non-tradable surfaces for lighting power density calculations deleted from Table G3.6			A				
<b>Addendum bc</b>												

# 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						Y or N	Y or N	
6.5.4.8			Buildings with High-Capacity Space Heating Gas Boiler Systems		Language previously reviewed by TAG and the proposed amendment was approved with modified requirements.			R				
<b>Addendum cd</b>												
6.5.6.1.2			Energy Recovery for Spaces other than Non-Transient Dwelling Units		Deletes requirement that energy recovery shall result in an enthalpy recovery ration of at least 50% for BOTH heating and cooling design conditions.			A				
6.5.6.1.2.1			Energy Recovery for Spaces other than Non-Transient Dwelling Units		Adds back the reuqirement deleted above as a separate subsection for clarity.			A				
6.5.6.1.2.2			Energy Recovery for Spaces other than Non-Transient Dwelling Units		Adds provision for either air economizer or bypass operation. Added exception for energy recovery systems with 80% or more outdoor air at full design airflow rate not exceeding 10,000 cfm			A				
<b>Addendum db</b>												
Table G3.1			Modeling Requirements for Calculating Design Energy Coset and Energy Cost Budget. Item 5 Buidling Envelope		Add criteria for the baseline building including Space Conditioning Categories, with an exception for semi-heated spaces.			A				
Table G3.4-9			New Table- Heated Space Criteria		Sets threshold for heated spaces in zones 6 and 7 at 20 Btu/h-ft2			A				
<b>Addendum by</b>												
3.2			Definitions		Clarify definition for on-site renewable energy as energy harvested at the building site. Add definition for Renewable Energy resources. Delete definition for Site Solar Energy.			A				
6.5.2.1			Modify Exception 4		Exception 4 modified for new definition of on-site renewable energy.			A				
6.5.2.3			Modify Exceptions 4 and 5		Exceptions modified for new definition of on-site renewable energy.			A				
6.5.3.5			Modify Exception 5		Exception modified for new definition of on-site renewable energy.			A				
6.5.6.1.2			Modify Exception 3		Exception modified for new definition of on-site renewable energy.			A				
6.5.6.2.2			Modify Exception 2		Exception modified for new definition of on-site renewable energy.			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						Y or N	Y or N	
7.4.5.2			Modify Exception		Exception modified for new definition of on-site renewable energy.			A				
7.5.3			Modify Exception		Exception modified for new definition of on-site renewable energy.			A				
10.5.1			Renewable Energy Sources		Section and subsection added for Renewable Energy Sources and subsection 10.5.1.1 On-Site Renewable Energy with (5) exceptions.			A				
Addendum ck												
11.4			Simulation Program Requirements		Exception added to 11.4.1 allowing building officials to approve separate computer-based programs to calculate on-site renewable energy.			A				
11.4.3.1			On-Site Renewable Energy and Site-Recovered Energy		on-site renewable energy included in the budget building design shall be subtracted from the budget building design energy consumption before calculating the energy cost budget.			A				
11.5.1			Modeling Requirements for Calculating Design Energy Cost and Energy Cost Budget		New criteria added for on-site renewable energy			A				
Addendum cp												
4.2.1.1			New Buildings		Formula modified and variable description added for PBP and PRE.			A				
Table G3.1			Section 18 On-Site Renewable Energy added		Criteria added to both the Baseline Building Performance and the Proposed Building Performance.			A				
Addendum cr												
11.2			Energy Cost Budget Method- Compliance		Item d added to either comply with building envelope prescriptive criteria from Section 5.5 or limiting the base envelope performance factor to a deviation of not more than 15% for multi-family residential and 7% for other building types. Essentially sets a building envelope backstop since building envelope is not easily modified after construction.			A				
G1.2.1			Mandatory Provisions		Item c added to either comply with building envelope prescriptive criteria from Section 5.5 or limiting the base envelope performance factor to a deviation of not more than 15% for multi-family residential and 7% for other building types. Essentially sets a building envelope backstop since building envelope is not easily modified after construction.			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- 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	Stake- holder Consensus	Comments
				Y or N		N=None, L=Low M=Med, H=High				Y or N	Y or N	
Addendum da												
G1.3.2			Application Documentation		General application documentation requirements modified for clarity and requiring more transparency in the proposal.			A				