## Appendix-B: Additional Approved 2020 Florida Energy Code Changes with Energy Impact

proposed energy code modifications that has been approved since November 1, 2018 and as of March 31, 2019. Table-B contains summary of additional approved code changes for the 7th Edition (2020) Florida Commercial Energy Code. The

Table-B: Summary of Proposed Commercial Code Changes between 6th and 7th Edition Florida Energy Code

ь		S. No.
C402.4.1.2 Increased skylight area with daylight responsive controls, CE97-16		2018 IECC Section and Title, ICC Code # or Other Code
EN7499 Approved		Mod # or Comment
Modified code section C402.4.1.2. Skylights area percentage allowed with daylight response control is used increased from 5% to 6%. No net first cost change is anticipated.  Prototype Buildings Investigated: Primary School, Secondary School, and Non-refrigerated warehouse.  Quantitative Analysis: there is no energy savings for changing skylight area fraction from 5.0% to 6.0% in gymnasium and bulk storage space type.  Cost Benefit Analysis: savings to investment ratio (SIR) value for this change was much less than 1.0; hence, this code change is not cost effective.	Section 402 Building Envelope Requirements	Change Summary b/t 2017 FEC and Proposed 2020 FEC, and Analysis
No		Included in quantitative Analysis (Yes/No)
Yes		Included in Economic Analysis (Yes/No)

Table-B: Summary of Proposed Commercial Code Changes between 6th and 7th Edition Florida Energy Code (continued)

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		u	<b>.</b>					2			S. No.	
	C403.4.1.4 Heated or cooled vestibules (Mandatory), CE136-16 NAR				C402.5.6 Loading dock weatherseals, CE116-16				2018 IECC Section and Title, ICC Code # or Other Code			
					EN7515 NAR					Mod # or Comment		
	Cost Benefit Analysis: savings to investment ratio (SIR) value for this change was about 9.0; hence, this code change is cost effective	Quantitative Analysis: there is potential energy savings, about.	Prototype Buildings Investigated: Standalone-Retail.	Added new code section C403.4.1.4. Defines heating and cooling temperature limits for heated or cooled vestibules and air curtain. It is mandatory. Increases first cost.	Section 403 Building Mechanical Systems	Cost Benefit Analysis: savings to investment ratio (SIR) value for this change was about 0.07; hence, this code change is not cost effective.	Quantitative Analysis: there is no significant energy savings for adding weatherseals in loading dock.	<b>Prototype Buildings Investigated</b> : non-refrigerated warehouse.	Modified code section C402.5.6. Door openings shall be equipped with weatherseals to restrict infiltration and provide direct contact along the top and sides of vehicles when parked in the doorway. Increase first cost of construction.	Section 402 Building Envelope Requirements	Change Summary b/t 2017 FEC and Proposed 2020 FEC, and Analysis	
		No						No			Included in quantitative Analysis (Yes/No)	
		Yes						Yes			Included in Economic Analysis (Yes/No)	N.

Table-B: Summary of Proposed Commercial Code Changes between 6th and 7th Edition Florida Energy Code (continued)

	4			S. No.
C403.7.6.2 Ventilation controls, CE138-16	C403.7.6.1 Temperature setpoint controls, CE138-16 C403.7.6.2 Ventilation controls, CE138-16			2018 IECC Section and Title, ICC Code # or Other Code
Approved	EN8142			Mod # or Comment
and air curtain. It is mandatory. Increases first cost.  Prototype Buildings Investigated: Small Hotel and Large Hotel.  Quantitative Analysis: there is potential energy savings.  Cost Benefit Analysis: savings to investment ratio (SIR) value for this change was found out to be about 1.2; hence, this code change is considered cost effective.	Added new code section C403.7.6.2. Controls shall be provided on each HVAC system that can automatically turn off the ventilation and exhaust fans 30 minutes after the occupant leaves the guest room. Increases first cost but cost effective.  Added new code section C403.4.1.4. Defines heating and cooling temperature limits for heated or cooled vestibules	Added new code section C403.7.6. Control requirement for each guest room in buildings containing over 50 guest rooms. Increases first cost but cost effective.  Added new code section C403.7.6.1. Add set point temperature setback or setup control requirement when each guest room is not occupied. Increases first cost but cost effective.	Section 403 Building Mechanical Systems	Change Summary b/t 2017 FEC and Proposed 2020 FEC, and Analysis
		Included in quantitative Analysis (Yes/No)		
		Included in Economic Analysis		