

Code Review

2018 Changes to International Codes

IECC - COMMERCIAL - SWIMMING POOL TAC

W A R N I N G

Copyright Notice: This document has been reproduced solely for considering proposed changes to the Florida Building Code with the permission of the International Code Council, Inc., is the copyrighted property of the International Code Council, Inc., all rights reserved, and may not be further reproduced or distributed.

W A R N I N G



**FLORIDA
BUILDING
COMMISSION**
"Stronger Codes Through Science and Consensus"

Florida
dbpr
Department of Business and Professional Regulation



Building Codes and Standards

Energy Conservation Code (IECC)- (Commercial)

Swimming Pool Technical Advisory Committee (TAC)

2018 International Energy Conservation Code – Commercial – Swimming Pool

Swimming Pool TAC

IECC- Energy Commercial Code Change No.	IECC-Energy Commercial – Section	Change Summary b/t 2015 IECC and 2018 IECC.	Change Summary b/t 2017 FECC and 2018 IECC.	Staff comments		
CE177-16, Part I	C404.9.3	<p>Modifies text of Section C404.9.3 “Covers”. Proposal revises the exception from 70% to 75%. Add in parameters for "operating season". Allow the use of other on-site renewable energy systems.</p> <p>Cost Impact: Will increase the cost of construction. For this exception, since the requirement has been increased from 70% to 75%, the estimated increase in cost for this option would be approximately 7 percent.</p>	This change is not similar to that of the FEC-C. The FEC-C provides for Florida specific changes to this section	Overlapping provision to be considered during step 2 of the code change process		
<p>TAC Action Accommodate Florida Specific Need: YES (Select Criteria) <input type="checkbox"/> NO: <input type="checkbox"/> a. <input type="checkbox"/> b. <input type="checkbox"/> c. <input type="checkbox"/> d. <input type="checkbox"/> e. <input type="checkbox"/> f. <input type="checkbox"/> Others (Explain): <input type="text"/></p>		<p>Commission Action Accommodate Florida Specific Need: YES (Select Criteria) <input type="checkbox"/> NO: <input type="checkbox"/> a. <input type="checkbox"/> b. <input type="checkbox"/> c. <input type="checkbox"/> d. <input type="checkbox"/> e. <input type="checkbox"/> f. <input type="checkbox"/> Others (Explain): <input type="text"/></p>		<input type="checkbox"/> No Action Needed <input type="checkbox"/> Overlapping provisions	<p>TAC</p> <input type="checkbox"/> <input type="checkbox"/>	<p>Cmsn.</p> <input type="checkbox"/> <input type="checkbox"/>

Rule 61G20-2.002 2. Technical amendments needed to accommodate the specific needs of this state include but are not limited to amendments to the Florida Building Code that provide for the following:
 a. Establish minimum life safety construction requirements to protect buildings and their occupants from fire, wind, flood, and storm surge using the latest technical research and engineering standards for buildings and materials products. b. Provide for flood protection provisions that are consistent with the latest flood protection requirements of the National Flood Insurance Program. c. Maintain eligibility for federal funding and discounts from the National Flood Insurance Program, the Federal Emergency Management Agency, and the United States Department of Housing and Urban Development. d. Provide for energy efficiency standards for buildings that meet or exceed the national energy standards as mandated by Title III of the Energy Conservation and Protection Act. e. Maintain coordination with the Florida Fire Prevention Code. f. Provide for the latest industry standards and design

Code Change No: CE177-16 Part I

Original Proposal

Section: C404.9.3

THIS IS A 2 PART CODE CHANGE. PART I WILL BE HEARD BY THE IECC-COMMERCIAL CODE COMMITTEE. PART II WILL BE HEARD BY THE IECC-RESIDENTIAL CODE COMMITTEE. SEE THE TENTATIVE HEARING ORDERS FOR THESE COMMITTEES.

Proponent: Steven Rosenstock, representing Edison Electric Institute (srosenstock@eei.org)

Revise as follows:

C404.9.3 Covers. Outdoor heated pools and outdoor permanent spas shall be provided with a vapor-retardant cover or other approved vapor-retardant means.

Exception: Where more than ~~70~~75 percent of the energy for heating, computed over an operating season of at least 3 calendar months, is from site-recovered energy such as from a heat pump or solar on-site renewable energy source system, covers or other vapor-retardant means shall not be required.

Reason: This proposal makes the following changes:

Revise the exception from 70% to 75%. This revision is based on information provided by the US Department of Energy, which can be found at the following web sites:

- <http://energy.gov/energysaver/swimming-pool-covers>
- <http://energy.gov/energysaver/heat-pump-swimming-pool-heaters> (see Table 1. Costs by Location of Heating Outdoor Pools with a Heat Pump)
- <http://energy.gov/energysaver/gas-swimming-pool-heaters> (see Table 2. Costs of Outdoor Pool Gas Heating by Location)

Based on the tables shown, for many cities and pool water temperatures, the energy savings from using covers is on the order of 75-90%. By increasing the requirement to 75%, the exception will help to create more of an energy savings balance between not using the cover and on-site energy systems.

Add in parameters for "operating season". As shown on the DOE web site, the estimated operating season can be anywhere from 3 months to 12 months, depending on the location of the pool. Adding in the words "of at least 3 months" ensures that the on-site systems can provide the required amount of energy while the pool is being operated.

Allow the use of other on-site renewable energy systems. The phrase "such as" provides examples of site-recovered energy systems. By using the term "*on-site renewable energy*", which is a defined term in Section C202, it provides more technical options that can qualify. Since this is a list, the new language provides more information and clarification.

Cost Impact: Will increase the cost of construction
For this exception, since the requirement has been increased from 70% to 75%, the estimated increase in cost for this option would be approximately 7 percent.

Report of Committee Action Hearings

Committee Action:

Approved as Submitted

Committee Reason: Approval is based on the proponent's published reason statements.

Assembly Action

None

Final Action Results

CE177-16 Part I

AS

CE177-16 Part I

C404.9.3 Covers. Outdoor heated swimming pools and outdoor permanent spas shall be equipped ~~provided~~ with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss. ~~or other approved vapor retardant means.~~

Exception: no change.