

8th Edition (2023) Florida Building Code

Proposed Code Modifications



This document created by the Florida Department of Business and Professional Regulation -

850-487-1824

TAC: Mechanical

Total Mods for **Mechanical** in **Approved as Modified** : 1

Total Mods for report: 11

Sub Code: Residential

M10069						1
Date Submitted	02/09/2022	Section	19	Proponent	Timothy de Carion	
Chapter	19	Affects HVHZ	Yes	Attachments	Yes	
TAC Recommendation	Approved as Modified					
Commission Action	Pending Review					

Comments

General Comments Yes

Alternate Language Yes

Related Modifications

Summary of Modification

This modification will provide new code requirements for the installation of residential stand-by generators. Current code does not have requirements.

Rationale

The current code does not address installation standards for standby residential generators. This section will provide uniform standards for installation. These new sections will provide additional safety requirements to protect homeowners from carbon monoxide sickness and even death.

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

Residential generators are already permitted and inspected. No additional inspections will be required.

Impact to building and property owners relative to cost of compliance with code

An additional carbon monoxide detector would be required.

Impact to industry relative to the cost of compliance with code

An additional carbon monoxide detector would be required.

Impact to small business relative to the cost of compliance with code

Requirements

Has a reasonable and substantial connection with the health, safety, and welfare of the general public

These new sections will provide additional safety requirements to protect homeowners from carbon monoxide sickness and even death.

Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

Yes, these new sections will provide additional safety requirements to protect homeowners from carbon monoxide sickness and even death.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

No, many products available.

Does not degrade the effectiveness of the code

No, improves uniformity.

Alternate Language

2nd Comment Period

M10069-A1 Proponent Joseph Belcher Submitted 8/25/2022 3:23:00 PM Attachments Yes

Rationale:

The change to add the phrase "permanently installed" is intended to prevent misapplication to portable generators.

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

No impact.

Impact to building and property owners relative to cost of compliance with code

No impact.

Impact to industry relative to the cost of compliance with code

No impact.

Impact to small business relative to the cost of compliance with code

Requirements

Has a reasonable and substantial connection with the health, safety, and welfare of the general public

The change has a reasonable connection with the welfare of the general public by clarifying the application of the new section and forestalling misapplication.

Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

The change strengthens the code by clarifying the application of the new section and forestalling misapplication.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

The change does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

Does not degrade the effectiveness of the code

The change improves the effectiveness of the code.

2nd Comment Period

M10069-G3 Proponent Alan Gremillion Submitted 8/8/2022 3:00:44 PM Attachments No

Comment:

\$150 = Cost to add (1) carbon monoxide detector

2nd Comment Period

M10069-G4 Proponent Alan Gremillion - RCCIW Submitted 8/10/2022 10:43:38 AM Attachments No

Comment:

\$150 = Cost (1) additional carbon monoxide detector (applies to exception)

1st Comment Period History

M10069-G1
Proponent Bryan Holland Submitted 3/28/2022 9:28:14 AM Attachments Yes
Comment:
NEMA strongly supports this proposed modification and urges the TAC(s) and Commission to approve this modification that will improve the safe installation and operation of standby generators.

1st Comment Period History

M10069-G2
Proponent Rebecca Quinn obo FL Submitted 4/14/2022 1:44:07 PM Attachments No
Div Emerg Mgnt
Comment:
On behalf of Conn Cole, State Floodplain Manage with FDEM Office of Floodplain Management, FDEM supports this proposal. When stand-by generators are elevated and flooding occurs up to the elevation required by R322.1.6, the generators will not need to be replaced or have major repairs performed before they're ready to provide power until service is restored.

(M10069 Original plus A1)

CHAPTER 19

SPECIAL APPLIANCES, EQUIPMENT AND SYSTEMS

SECTION M1905 RESIDENTIAL PERMANENTLY INSTALLED STAND-BY GENERATORS.

M1905.1 Listed and labeled.

Permanently installed stand-by generators regulated by this code shall be listed and labeled for the application in which they are installed and used.

M1905.2 Installation.

Installation of permanently installed stand-by generators shall comply with manufacturer's installation instructions and listing conditions.

M1905.2.1 Electrical installation.

Electrical installation of permanently installed stand-by generators shall comply with the applicable provisions of NFPA 70, National Electrical Code, manufacturer's installation instructions, and conditions of the listing.

M1905.2.2 Flood hazard.

In flood hazard areas as established by Table R301.2(1), Permanently installed stand-by generators shall be located or installed in accordance with Section R322.1.6.

M1905.2.3 Fuel installation.

M1905.2.3.1 Fuel gas.

Fuel gas installation for permanently installed stand-by generators shall comply with the applicable provisions of Chapter 24 of this code.

M1905.2.3.2 Liquid fuel.

Liquid fuel installation for permanently installed stand-by generators shall comply with the applicable provisions of NFPA-30.

M1905.2.4 (301.10) Wind resistance.

Permanently installed stand-by generators that are exposed to wind shall be designed and installed to resist the wind pressures determined in accordance with this code.

M1905.2.5 Exhaust Location.

Permanently installed residential standby generator's exhaust shall be located to not create a nuisance. Exhaust termination shall be a minimum of 10 feet from any openings that could allow fumes into the building (doors, operable windows, eave vents, etc.) or air intakes.

Exception: The generator exhaust can be located a minimum of 5 feet from any such openings (doors, operable windows, eave vents, etc.) or in compliance with generator manufacturer installation requirements and listing, whichever is more restrictive, if all of the following is complied with:

1. A carbon monoxide (CO) alarm(s) is installed in the residency within 10 feet of each room

used for sleeping purposes, or per the alarm's manufacturer installation requirements and listing,

whichever is more restrictive.

2. An additional carbon monoxide (CO) alarm is installed in the residency as close as possible

to the building's exterior opening nearest to the generator exhaust.

3. The carbon monoxide (CO) alarms mentioned above shall be of the types required by sections R315.1.1 or R315.1.2 of this code.

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Permanently installed stand-by generators that are exposed to wind shall be designed and installed to resist the wind pressures determined in accordance with this code.

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Exception: The generator exhaust can be located a minimum of 5 feet from any such openings (doors, operable windows, eave vents, etc.) or in compliance with generator manufacturer installation requirements and listing, whichever is more restrictive, if all of the following is complied with:

1. A carbon monoxide (CO) alarm(s) is installed in the residency within 10 feet of each room used for sleeping purposes, or per the alarm's manufacturer installation requirements and listing, whichever is more restrictive.
2. An additional carbon monoxide (CO) alarm is installed in the residency as close as possible to the building's exterior opening nearest to the generator exhaust.
3. The carbon monoxide (CO) alarms mentioned above shall be of the types required by sections R315.1.1 or R315.1.2 of this code.

CHAPTER 19

SPECIAL APPLIANCES, EQUIPMENT AND SYSTEMS

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Exception: The generator exhaust can be located a minimum of 5 feet from any such openings (doors, operable windows, eave vents, etc.) or in compliance with generator manufacturer installation requirements and listing, whichever is more restrictive, if all of the following is complied with:

1. A carbon monoxide (CO) alarm(s) is installed in the residency within 10 feet of each room used for sleeping purposes, or per the alarm's manufacturer installation requirements and listing, whichever is more restrictive.
2. An additional carbon monoxide (CO) alarm is installed in the residency as close as possible to the building's exterior opening nearest to the generator exhaust.
3. The carbon monoxide (CO) alarms mentioned above shall be of the types required by sections R315.1.1 or R315.1.2 of this code.

GENERATOR SAFETY

USE BACKUP POWER SAFELY

When used properly, portable and standby generators are a great option to provide backup power during brownouts or blackouts. Learn how to use generators safely with the following tips:

GENERATORS

Location



Always keep generators at least **20 feet away** from your home



Never operate a generator in an **enclosed space**



Make sure the generator has **3-4 feet** of clear space above and on all sides for proper ventilation



Keep generators **away** from doors, windows, and vents



Always **direct exhaust away** from your home

Use



Always use **grounded cords** and inspect cords for damage prior to use



Use the **proper cord** for the wattage being used



Always use **GFCI protection**



Make sure to start / stop generators when **no electrical loads** are connected



Keep generators **dry, do not operate when wet**, and refuel when cool

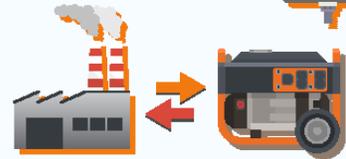


Do not overload generators



Do not plug a generator directly into your home, connect items being powered **directly to the generator**

TRANSFER SWITCHES



Transfer switches, whether manual or automatic, allow you to choose between **utility power** or **backup generator power**



Transfer switches are the only way to **safely power** your home's electrical system



Using a transfer switch **prevents backfeeding**. This occurs when your generator becomes a power source for the **surrounding area** and can damage your home, your neighbor's homes, and injure workers trying to restore power

CARBON MONOXIDE (CO) POISONING PREVENTION



Improper use and installation of generators could **cause CO poisoning**



Make sure your home has **carbon monoxide alarms** outside each sleeping area and on every level of the home



CO can kill in as little as **5 minutes**

Symptoms of CO poisoning



If you experience CO poisoning symptoms, **get fresh air, do not reenter areas, and call 911.**

Please **share this free** resource to save lives



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www.youtube.com/ESFIdotorg

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TAC: Mechanical

Total Mods for **Mechanical** in **Approved as Submitted** : 7

Total Mods for report: 11

Sub Code: Mechanical

M9996

2

Date Submitted	02/01/2022	Section	301.18	Proponent	T Stafford
Chapter	3	Affects HVHZ	No	Attachments	No
TAC Recommendation	Approved as Submitted				
Commission Action	Pending Review				

Comments

General Comments No **Alternate Language No**

Related Modifications

Summary of Modification

This modification is one of a series of modifications that delete the seismic and snow requirements from the code. In accordance with Exception 2 to Section 101.2 of the FBCB, seismic and snow requirements are not to be utilized or enforced in the State of Florida.

Rationale

This modification is the culmination of a project funded by the Florida Building Commission through Building a Safer Florida (BASF) that the deletes the seismic and snow provisions from the Florida Building Codes. In accordance with Exception 2 to Section 101.2 of the Florida Building Code, Building, the seismic and snow provisions are exempted from the scope of the Florida Building Codes. Exception 2 to Section 101.2 states the following: "2. Code requirements that address snow loads and earthquake protection are pervasive; they are left in place but shall not be utilized or enforced because Florida has no snow load or earthquake threat." These modifications clarify and simplify the code by deleting requirements that do not apply in the State of Florida.

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

No impact to local entities relative to enforcement of the code.

Impact to building and property owners relative to cost of compliance with code

No impact to building and property owners relative to cost of compliance with the code.

Impact to industry relative to the cost of compliance with code

No impact to industry relative to the cost of compliance with the code.

Impact to small business relative to the cost of compliance with code

Requirements

Has a reasonable and substantial connection with the health, safety, and welfare of the general public

Clarifies and simplifies the code by deleting requirements that do not apply in the State of Florida.

Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

Improves the code by deleting requirements that do not apply in the State of Florida.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

This proposal does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities.

Does not degrade the effectiveness of the code

This proposal does not degrade the effectiveness of the code.

Revise as follows:

301.18 Seismic resistance. Reserved. ~~Where earthquake loads are applicable in accordance with the *Florida Building Code, Building*, mechanical system supports shall be designed and installed for the seismic forces in accordance with the *Florida Building Code, Building*.~~

TAC: Mechanical

Total Mods for **Mechanical** in **Approved as Submitted** : 7

Total Mods for report: 11

Sub Code: Mechanical

M9997

3

Date Submitted	02/01/2022	Section	506.3.3	Proponent	T Stafford
Chapter	5	Affects HVHZ	No	Attachments	No
TAC Recommendation	Approved as Submitted				
Commission Action	Pending Review				

Comments

General Comments No **Alternate Language No**

Related Modifications

Summary of Modification

This modification is one of a series of modifications that delete the seismic and snow requirements from the code. In accordance with Exception 2 to Section 101.2 of the FBCB, seismic and snow requirements are not to be utilized or enforced in the State of Florida.

Rationale

This modification is the culmination of a project funded by the Florida Building Commission through Building a Safer Florida (BASF) that the deletes the seismic and snow provisions from the Florida Building Codes. In accordance with Exception 2 to Section 101.2 of the Florida Building Code, Building, the seismic and snow provisions are exempted from the scope of the Florida Building Codes. Exception 2 to Section 101.2 states the following: "2. Code requirements that address snow loads and earthquake protection are pervasive; they are left in place but shall not be utilized or enforced because Florida has no snow load or earthquake threat." These modifications clarify and simplify the code by deleting requirements that do not apply in the State of Florida.

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

No impact to local entities relative to enforcement of the code.

Impact to building and property owners relative to cost of compliance with code

No impact to building and property owners relative to cost of compliance with the code.

Impact to industry relative to the cost of compliance with code

No impact to industry relative to the cost of compliance with the code.

Impact to small business relative to the cost of compliance with code

Requirements

Has a reasonable and substantial connection with the health, safety, and welfare of the general public

Clarifies and simplifies the code by deleting requirements that do not apply in the State of Florida.

Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

Improves the code by deleting requirements that do not apply in the State of Florida.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

This proposal does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities.

Does not degrade the effectiveness of the code

This proposal does not degrade the effectiveness of the code.

Revise as follows:

506.3.3 Grease duct supports. Grease duct bracing and supports shall be of noncombustible material securely attached to the structure and designed to carry gravity ~~and seismic~~ loads within the stress limitations of the *Florida Building Code, Building*. Bolts, screws, rivets and other mechanical fasteners shall not penetrate duct walls.

TAC: Mechanical

Total Mods for **Mechanical** in **Approved as Submitted** : 7

Total Mods for report: 11

Sub Code: Mechanical

M10381

4

Date Submitted	02/14/2022	Section	507.2	Proponent	Rolando Soto
Chapter	5	Affects HVHZ	No	Attachments	No
TAC Recommendation	Approved as Submitted				
Commission Action	Pending Review				

Comments

General Comments No **Alternate Language No**

Related Modifications

Summary of Modification

This modification will provide an exception to the code requirement for Type 1 hoods (grease) for the installation of solid fuel or combination gas and solid fuel pizza ovens listed for direct venting.

Rationale

This modification will provide consistency thru the state in the enforcement of section 507.2, catch up with the technology and reduce the need for job specific alternatives.

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

This modification will provide consistency thru the state in the enforcement of section 507.2.

Impact to building and property owners relative to cost of compliance with code

This modification will reduce cost to owners.

Impact to industry relative to the cost of compliance with code

This modification will reduce cost to industry.

Impact to small business relative to the cost of compliance with code

Requirements

Has a reasonable and substantial connection with the health, safety, and welfare of the general public

This modification will ensure that only listed materials, products, methods, or systems of construction are used for the venting of solid fuel or combination gas and solid fuel pizza ovens if the oven is tested and listed using direct venting as allowed in NFPA 96.

Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

This modification will ensure that only listed materials, products, methods, or systems of construction are used for the venting of solid fuel or combination gas and solid fuel pizza ovens if the oven is tested and listed using

direct venting as allowed in NFPA 96.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

This modification does not discriminate against listed materials, products, methods, or systems of construction.

Does not degrade the effectiveness of the code

This modification will ensure that only listed materials, products, methods, or systems of construction are used for the venting of solid fuel or combination gas and solid fuel pizza ovens if the oven is tested and listed using direct venting as allowed in NFPA 96.

507.2 Type I hoods.

Type I hoods shall be installed where cooking appliances produce grease or smoke as a result of the cooking process. Type I hoods shall be installed over medium-duty, heavy-duty and extra-heavy-duty cooking appliances.

Exceptions:

1. A Type I hood shall not be required for an electric cooking appliance where an approved testing agency provides documentation that the appliance effluent contains 5 mg/m³ or less of grease when tested at an exhaust flow rate of 500 cfm (0.236 m³/s) in accordance with UL 710B.
2. A Type I hood shall not be required for solid fuel or combination gas and solid fuel pizza ovens if the oven is tested and listed using direct venting as allowed in NFPA 96. The venting system shall be constructed and installed per the conditions of listing of the oven and of the duct or chimney used for venting. This applies to pizza ovens listed with natural draft or forced draft venting.

TAC: Mechanical

Total Mods for **Mechanical** in **Approved as Submitted** : 7

Total Mods for report: 11

Sub Code: Mechanical

M9999

5

Date Submitted	02/01/2022	Section	908.4	Proponent	T Stafford
Chapter	9	Affects HVHZ	No	Attachments	No
TAC Recommendation	Approved as Submitted				
Commission Action	Pending Review				

Comments

General Comments No **Alternate Language No**

Related Modifications

Summary of Modification

This modification is one of a series of modifications that delete the seismic and snow requirements from the code. In accordance with Exception 2 to Section 101.2 of the FBCB, seismic and snow requirements are not to be utilized or enforced in the State of Florida.

Rationale

This modification is the culmination of a project funded by the Florida Building Commission through Building a Safer Florida (BASF) that the deletes the seismic and snow provisions from the Florida Building Codes. In accordance with Exception 2 to Section 101.2 of the Florida Building Code, Building, the seismic and snow provisions are exempted from the scope of the Florida Building Codes. Exception 2 to Section 101.2 states the following: "2. Code requirements that address snow loads and earthquake protection are pervasive; they are left in place but shall not be utilized or enforced because Florida has no snow load or earthquake threat." These modifications clarify and simplify the code by deleting requirements that do not apply in the State of Florida.

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

No impact to local entities relative to enforcement of the code.

Impact to building and property owners relative to cost of compliance with code

No impact to building and property owners relative to cost of compliance with the code.

Impact to industry relative to the cost of compliance with code

No impact to industry relative to the cost of compliance with the code.

Impact to small business relative to the cost of compliance with code

Requirements

Has a reasonable and substantial connection with the health, safety, and welfare of the general public

Clarifies and simplifies the code by deleting requirements that do not apply in the State of Florida.

Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

Improves the code by deleting requirements that do not apply in the State of Florida.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

This proposal does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities.

Does not degrade the effectiveness of the code

This proposal does not degrade the effectiveness of the code.

Revises as follows:

908.4 Support and anchorage. Supports for cooling towers, evaporative condensers and fluid coolers shall be designed in accordance with the *Florida Building Code, Building*. ~~Seismic restraints shall be as required by the *Florida Building Code, Building*.~~

TAC: Mechanical

Total Mods for **Mechanical** in **Approved as Submitted** : 7

Total Mods for report: 11

Sub Code: Residential

M10024

6

Date Submitted	02/01/2022	Section	1307.2	Proponent	T Stafford
Chapter	13	Affects HVHZ	No	Attachments	No
TAC Recommendation	Approved as Submitted				
Commission Action	Pending Review				

Comments

General Comments No **Alternate Language No**

Related Modifications

Summary of Modification

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Impact to building and property owners relative to cost of compliance with code

No impact to building and property owners relative to cost of compliance with the code.

Impact to industry relative to the cost of compliance with code

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Impact to small business relative to the cost of compliance with code

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Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

Improves the code by deleting requirements that do not apply in the State of Florida.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

This proposal does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities.

Does not degrade the effectiveness of the code

This proposal does not degrade the effectiveness of the code.

Revise as follows:

M1307.2 Anchorage of appliances. *Appliances* designed to be fixed in position shall be fastened or anchored in an *approved* manner. In Seismic Design Categories D₀, D₁ and D₂, and in townhouses in Seismic Design Category C, water heaters and thermal storage units shall be anchored or strapped to resist horizontal displacement caused by earthquake motion in accordance with one of the following:

-

1. Anchorage and strapping shall be designed to resist a horizontal force equal to one third of the operating weight of the water heater storage tank, acting in any horizontal direction. Strapping shall be at points within the upper one third and lower one third of the *appliance's* vertical dimensions. At the lower point, the strapping shall maintain a minimum distance of 4 inches (102 mm) above the controls.
2. The anchorage strapping shall be in accordance with the appliance manufacturer's recommendations.

TAC: Mechanical

Total Mods for **Mechanical** in **Approved as Submitted** : 7

Total Mods for report: 11

Sub Code: Residential

M10025

7

Date Submitted	02/01/2022	Section	2203.5	Proponent	T Stafford
Chapter	22	Affects HVHZ	No	Attachments	No
TAC Recommendation	Approved as Submitted				
Commission Action	Pending Review				

Comments

General Comments No **Alternate Language No**

Related Modifications

Summary of Modification

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Fiscal Impact Statement

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No impact to local entities relative to enforcement of the code.

Impact to building and property owners relative to cost of compliance with code

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Impact to industry relative to the cost of compliance with code

No impact to industry relative to the cost of compliance with the code.

Impact to small business relative to the cost of compliance with code

Requirements

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Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

Improves the code by deleting requirements that do not apply in the State of Florida.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

This proposal does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities.

Does not degrade the effectiveness of the code

This proposal does not degrade the effectiveness of the code.

Revise as follows:

M2203.5 Vent termination. Vent piping shall terminate outside of buildings at a point not less than 2 feet (610 mm), measured vertically or horizontally, from any building opening. Outer ends of vent piping shall terminate in a weatherproof cap or fitting having an unobstructed area at least equal to the cross-sectional area of the vent pipe, and shall be located sufficiently above the ground to avoid being obstructed ~~by snow and ice.~~

TAC: Mechanical

Total Mods for **Mechanical** in **Approved as Submitted** : 7

Total Mods for report: 11

Sub Code: Residential

M10026

8

Date Submitted	02/01/2022	Section	2301.2.13	Proponent	T Stafford
Chapter	23	Affects HVHZ	No	Attachments	No
TAC Recommendation	Approved as Submitted				
Commission Action	Pending Review				

Comments

General Comments No **Alternate Language No**

Related Modifications

Summary of Modification

This modification is one of a series of modifications that delete the seismic and snow requirements from the code. In accordance with Exception 2 to Section 101.2 of the FBCB, seismic and snow requirements are not to be utilized or enforced in the State of Florida.

Rationale

This modification is the culmination of a project funded by the Florida Building Commission through Building a Safer Florida (BASF) that the deletes the seismic and snow provisions from the Florida Building Codes. In accordance with Exception 2 to Section 101.2 of the Florida Building Code, Building, the seismic and snow provisions are exempted from the scope of the Florida Building Codes. Exception 2 to Section 101.2 states the following: "2. Code requirements that address snow loads and earthquake protection are pervasive; they are left in place but shall not be utilized or enforced because Florida has no snow load or earthquake threat." These modifications clarify and simplify the code by deleting requirements that do not apply in the State of Florida.

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

No impact to local entities relative to enforcement of the code.

Impact to building and property owners relative to cost of compliance with code

No impact to building and property owners relative to cost of compliance with the code.

Impact to industry relative to the cost of compliance with code

No impact to industry relative to the cost of compliance with the code.

Impact to small business relative to the cost of compliance with code

Requirements

Has a reasonable and substantial connection with the health, safety, and welfare of the general public

Clarifies and simplifies the code by deleting requirements that do not apply in the State of Florida.

Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

Improves the code by deleting requirements that do not apply in the State of Florida.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

This proposal does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities.

Does not degrade the effectiveness of the code

This proposal does not degrade the effectiveness of the code.

Delete section in its entirety:

~~**M2301.2.13 Thermal storage unit seismic bracing.** In Seismic Design Categories D₀, D₁ and D₂ and in townhouses in Seismic Design Category C, thermal storage units shall be anchored in accordance with Section M1307.2.~~

TAC: Mechanical

Total Mods for **Mechanical** in **Denied** : 3

Total Mods for report: 11

Sub Code: Residential

M10170

9

Date Submitted	02/11/2022	Section	1507.3.4	Proponent	Jeff Sonne for FSEC
Chapter	15	Affects HVHZ	No	Attachments	No
TAC Recommendation	Denied				
Commission Action	Pending Review				

Comments

General Comments No

Alternate Language No

Related Modifications

Summary of Modification

Additional documentation and labeling requirements for whole-house mechanical ventilation systems.

Rationale

FBC sponsored Florida research indicates that whole-house mechanical ventilation systems are not well understood by home occupants and for a number of reasons are not functioning as intended in the majority of cases. Whole-house mechanical ventilation systems are installed with the intent of improving the air quality of homes, and without documentation, the occupants may not be aware of the system and potentially suffer negative health impacts. This mod seeks to help insure that these systems are better understood by occupants, improve system reliability, and facilitate maintenance. For more information see:

<https://publications.energyresearch.ucf.edu/wp-content/uploads/2018/06/FSEC-CR-2002-15.pdf>

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

Slight impact in applicable cases to verify compliance.

Impact to building and property owners relative to cost of compliance with code

Slight increase in first cost in applicable cases.

Impact to industry relative to the cost of compliance with code

Slight impact in applicable cases.

Impact to small business relative to the cost of compliance with code

Requirements

Has a reasonable and substantial connection with the health, safety, and welfare of the general public

Yes; benefits public by increasing awareness of and reliability of whole-house mechanical ventilation systems.

Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

Yes; strengthens the code by increasing awareness of and reliability of whole-house mechanical ventilation systems.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

No; only increases awareness of and reliability of whole-house mechanical ventilation systems.

Does not degrade the effectiveness of the code

Increases effectiveness of the code by increasing awareness of and reliability of whole-house mechanical ventilation systems.

M1507.3 Whole-house mechanical ventilation system.

Whole-house mechanical ventilation systems shall be designed in accordance with Sections M1507.3.1 through M1507.3.3~~4~~.

[New] M1507.3.4 Mechanical ventilation labeling and documentation.

Where a whole-house mechanical ventilation system is provided, the following documentation and labeling shall also be provided:

1. Diagram or other descriptive information about the system provided with *ready access*. Diagram shall indicate the type of whole-house ventilation system and location of any supply and exhaust air ducts and grilles, filter(s), and controls.
2. Labeling on key components of the ventilation system including:
 - a. Outdoor intake and exhaust terminations
 - b. Accessory dampers
 - c. Controls.

[Modify the following Section R202 definition:]

READY ACCESS (TO). That which enables a device, appliance, information, or equipment to be directly reached, without requiring the removal or movement of any panel, door or similar obstruction.

TAC: Mechanical

Total Mods for **Mechanical** in **Denied** : 3

Total Mods for report: 11

Sub Code: Residential

M10171

10

Date Submitted	02/11/2022	Section	1507.3.5	Proponent	Jeff Sonne for FSEC
Chapter	15	Affects HVHZ	No	Attachments	No
TAC Recommendation	Denied				
Commission Action	Pending Review				

Comments

General Comments No

Alternate Language No

Related Modifications

Summary of Modification

Test report requirements for whole-house mechanical ventilation systems.

Rationale

Whole-house mechanical ventilation is relatively new in Florida and is only installed on a relatively small number of new houses. Also, FBC sponsored Florida research indicates that whole-house mechanical ventilation systems are for a number of reasons not functioning as intended in the majority of cases (see: <https://publications.energyresearch.ucf.edu/wp-content/uploads/2018/06/FSEC-CR-2002-15.pdf>). This mod will help insure that whole-house mechanical ventilation system operational status has been confirmed and help make building officials aware of the presence of these systems to facilitate verification.

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

Slight impact in applicable cases to verify compliance.

Impact to building and property owners relative to cost of compliance with code

Small increase in first cost in applicable cases.

Impact to industry relative to the cost of compliance with code

Small increase in applicable cases.

Impact to small business relative to the cost of compliance with code

Requirements

Has a reasonable and substantial connection with the health, safety, and welfare of the general public

Yes; benefits public by increasing awareness of and reliability of whole-house mechanical ventilation systems.

Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

Yes; strengthens the code by increasing awareness of and reliability of whole-house mechanical ventilation systems.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

No; only increases awareness of and reliability of whole-house mechanical ventilation systems.

Does not degrade the effectiveness of the code

Increases effectiveness of the code by increasing awareness of and reliability of whole-house mechanical ventilation systems.

M1507.3 Whole-house mechanical ventilation system.

Whole-house mechanical ventilation systems shall be designed in accordance with Sections M1507.3.1 through M1507.3.35.

[New] M1507.3.5 Mechanical ventilation test report.

Where a whole-house mechanical ventilation system is provided, the builder must submit a test report for the system to the code official that indicates:

1. The location of the system
2. Air intake location(s)
3. Filter location(s)
4. System operation is controlled as specified
5. Tested air flow.

TAC: Mechanical

Total Mods for **Mechanical** in **Denied** : 3

Total Mods for report: 11

Sub Code: Residential

M10173

11

Date Submitted	02/11/2022	Section	1507.3.6	Proponent	Jeff Sonne for FSEC
Chapter	15	Affects HVHZ	No	Attachments	No
TAC Recommendation	Denied				
Commission Action	Pending Review				

Comments

General Comments No

Alternate Language No

Related Modifications

Summary of Modification

Failure detection requirements for whole-house mechanical ventilation systems.

Rationale

FBC sponsored Florida research indicates that whole-house mechanical ventilation systems are not well understood by home occupants and for a number of reasons are not functioning as intended in the majority of cases. This mod seeks to help insure that these mechanical ventilation systems are better understood by occupants, improve system reliability, and facilitate maintenance. For more information see: <https://publications.energyresearch.ucf.edu/wp-content/uploads/2018/06/FSEC-CR-2002-15.pdf>.

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

Slight impact in applicable cases to verify compliance.

Impact to building and property owners relative to cost of compliance with code

Small increase in first cost in applicable cases.

Impact to industry relative to the cost of compliance with code

Small impact in applicable cases.

Impact to small business relative to the cost of compliance with code

Requirements

Has a reasonable and substantial connection with the health, safety, and welfare of the general public

Yes; benefits public by increasing awareness of and reliability of whole-house mechanical ventilation systems.

Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

Yes; strengthens the code by increasing awareness of and reliability of whole-house mechanical ventilation systems.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

No; only increases awareness of and reliability of whole-house mechanical ventilation systems.

Does not degrade the effectiveness of the code

Increases effectiveness of the code by increasing awareness of and reliability of whole-house mechanical ventilation systems.

M1507.3 Whole-house mechanical ventilation system.

Whole-house mechanical ventilation systems shall be designed in accordance with Sections M1507.3.1 through M1507.3.3~~6~~.

[New] M1507.3.6 Mechanical ventilation failure detection.

Where a whole-house mechanical ventilation system is provided, the system shall have means of detecting airflow movement through duct when on, with an operational status signal complying with one or more of the following:

1. A visual display that is readily accessible to occupants of the dwelling unit and located on or within one foot of the IAQ system control.
2. An electronic application.
3. An audible alarm accompanied by a visual display.