

FLORIDA FLOODPLAIN MANAGERS ASSOCIATION

FLORIDA CHAPTER OF THE ASSOCIATION OF STATE FLOODPLAIN MANAGERS, INC.

P.O. Box 21243 | Tampa, FL 33622-1243 | 813-765-FFMA (3362) | FLfloods.org

December 17, 2018

Our Mission:

"Providing leadership in floodplain management to reduce risk and loss caused by flood"

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Re: 2020 Florida Building Code Impact on NFIP CRS

Dear Commission Staff Mo Madani,

Please accept our most sincere sympathy for the recent passing of your Chair. During your October 8, 2018 meeting in Sarasota, the Florida Building Commission received oral and written comments and analysis from Desiree Companion during the public comment session. Ms. Companion attended as a representative of the Florida Floodplain Managers Association (FFMA), which is the Florida Chapter of the Association of State Floodplain Managers (ASFPM). She served as Chair of FFMA from 2012-2014, and as a regent on the Certification Board of Regents (CBOR) for ASFPM from 2008-2015. CBOR develops and recommends all key certification policies and procedures of the Certified Floodplain Manager (CFM) program.

During that session, our comments pertained primarily to the impacts of delays in the I-Code adoption by the Florida Building Commission as it pertains to the National Flood Insurance Program — Community Rating System (CRS). One of the Commissioners asked for more detail on the Building Code Effectiveness Grading Schedule (BCEGS), which directly affects CRS ratings. A copy of the BCEGS specification from Insurance Services Office, Inc. (ISO) is enclosed for a more comprehensive review.

At the meeting, the Chair requested that FFMA provide any further analysis by ISO as to implications of a delay in adopting the 2015 I-codes, including to what degree the delay could negatively impact both the BCEGS and CRS ratings, as they relate to flood insurance costs for Floridians. The request was submitted to ISO; however, at this time they have declined to conduct such an analysis until after the 2020 Florida Building Code is adopted. FFMA has engaged the assistance of ASFPM with a follow-up request, or possibly an assessment of the negative impacts. Upon receipt of any such data, we will immediately forward to you for review.

Please distribute a copy of this letter and attachment to the Commissioners of the Florida Building Commission. If you have further questions or require additional



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information, please contact us at contact@FLfloods.org or the number above. Thank you for all you do to help keep Florida safe and resilient.

Sincerely,

Delton S. Schwalls, PE, CFM

Chair | Florida Floodplain Managers Association

Attachment: BCEGS Specification

c: FBC Commissioners

FFMA Board

FFMA Legislative Committee

ASFPM Executive Office

BUILDING CODE EFFECTIVENESS GRADING SCHEDULE



INSURANCE SERVICES OFFICE, INC.

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Building Code Effectiveness Grading Schedule

INTRODUCTION

10. PURPOSE:

The purpose of this Schedule is to review the available public building code enforcement agencies, and to develop a Building Code Effectiveness Classification for insurance underwriting information and rating purposes.

15. SCOPE:

The Schedule measures the resources and support available for building code enforcement. It also evaluates how those resources apply to the mitigation of the natural hazards common to the specific jurisdiction. These measurements are then developed into a Building Code Effectiveness Classification number on a relative scale from 1 to 10, with 1 representing the most favorable classification. In addition, a classification of 99 represents a jurisdiction that is either unclassified or does not meet the minimum criteria of this schedule.

The Schedule is an insurance underwriting-information and rating tool. It is not intended to analyze all aspects of a comprehensive building code enforcement program. It should not be used for purposes other than insurance underwriting information and rating.

20. BUILDING CODE EFFECTIVENESS CLASSIFICATION:

The Building Code Effectiveness Classifications developed through the use of this Schedule are only one of several elements used to develop insurance rates for individual properties. Other features specifically relating to individual properties such as construction, occupancy, and exposures have similar importance in the development of these rates.

25. JURISDICTION:

The word "jurisdiction" as used in this Schedule includes cities, towns, villages, districts, counties, or other political boundaries.

30. FORMAT:

This Schedule is divided into 3 sections:

I. Administration of Codes:

This section evaluates the administrative support available in the jurisdiction for code enforcement. It looks for adopted building codes and modifications of those codes through ordinance, code enforcers qualifications, experience and education, zoning provisions, contractor/builder licensing requirements, public awareness programs, the building department's participation in code development activities and the administrative policies and procedures.

II. Plan Review:

This section assesses the plan review function to determine the staffing levels, personnel experience, performance evaluation schedules, review capabilities, and level of review of construction documents for compliance with the adopted building code for the jurisdiction being graded.

III. Field Inspection:

This section evaluates the field inspection function to determine the staffing levels, personnel experience, performance evaluation schedules, review capabilities, and level of review of building construction for compliance with the adopted building code for the jurisdiction being graded.

33. Classifications Categories:

A. Personal Lines Classification

This classification will evaluate the adopted codes, plan review, field inspection policies, procedures, and the jurisdiction's commitment to building code enforcement related to all 1 and 2 family dwellings.

B. Commercial Lines Classification

This classification will evaluate the adopted codes, plan review, field inspection policies, procedures and the jurisdiction's commitment to building code enforcement related to all buildings other than 1 and 2 family dwellings.

35. CALCULATIONS:

Whenever in this Schedule it is necessary to prorate credits, or to make any calculation using less than a whole percent or point, the following rules apply unless otherwise directed:

- **A.** Final calculations with a 3 or more decimal place figure will be rounded to a 2 decimal place figure, promoting 0.005 or more, and dropping 0.004 or less (e.g., 2.285 = 2.29; 2.284 = 2.28).
- **B.** All values are proratable except where noted.
- C. If a portion of this Schedule does not apply due to an inapplicability to the jurisdiction being graded, the maximum points for that subsection will be given. For example, jurisdictions whose identified natural hazard(s) does not lend itself to mitigation by zoning regulations would receive maximum credit under Section 140. "ZONING PROVISIONS" even though there were no zoning provisions in place.
- **D.** When documentation is not provided to substantiate an item of review within this Schedule, and it is reasonable to assume that credit for the item is justified, a maximum of 75% of the credit points possible can be given to the item under review.
- **E.** The final score will be determined by a relationship between Item 105 and the balance of the Schedule.

[{(Section I + Section II + Section III) - Item 105} x Points Achieved in Item 105] + Item 105 Points Possible in Item 105

F. The maximum points available in any Item are those points indicated in the Item or sub- item heading.

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40. MINIMUM CONDITIONS FOR APPLYING THIS SCHEDULE:

In order to develop a Building Code Effectiveness Classification other than Class 99, the following minimum conditions must exist:

A. Organization:

The building department shall be organized on a permanent basis under applicable state or local laws. The organization will include one person responsible for the operation of the department, usually with the title of Building Official.

The department must serve an area with definite boundaries. If the jurisdiction is not served by a building department operated solely by or for the governing body of that jurisdiction, the building department providing such service will do so under a legal contract or resolution. When a building department's service area involves one or more jurisdictions, a contract should be executed with each jurisdiction served.

B. Building Code:

A building code addressing the structural strength and stability necessary to provide resistance to natural hazards attributed to the built environment will be adopted and enforced.

C. Plan Review:

Review of construction documents for compliance with the adopted building code will be done for building construction within the jurisdiction being graded.

- 1. Minimum plan review criteria for commercial construction and multi-family (3 or more family) residential:
 - a. Structural plan review shall be conducted for all new commercial buildings including multi-family dwellings (3 or more dwelling units per building)
- 2. Minimum plan review criteria for one and two family dwellings:
 - a. When 90% or more of new buildings have a structural plan review conducted by the qualified building official or a qualified designee, full credit for Section II is available
 - b. When less than 90% of new buildings have a structural plan review conducted by the building official or qualified designee, the points achieved in Section II will be prorated by the percentage of plan reviews conducted when all of the following conditions exist:
 - i. The adopted construction code (promulgated by a nationally recognized building code development and publication organization) identifies that there are no natural hazards requiring special construction attention existing within the jurisdiction being evaluated
 - ii. Maximum allowable points are earned in item 110 "Modification to Adopted Codes"
 - iii. Permits are issued for all new 1 and 2 family dwellings, regardless of plan review activity
 - iv. Footing, foundation, framing, sheathing or insulation, and final building inspections are conducted by certified building inspectors. Certified is as determined by a nationally recognized building code development and publication organization or equivalent
 - Construction projects incorporating complex designs are plan reviewed by a qualified building official or a qualified designee for compliance with the adopted code

3. Less restrictive plan review policies may result in a classification of class 99 for multi family, commercial, or one and two family dwellings for insufficient attention to plan review

D. Field Inspection:

Field inspection of construction shall be conducted to ensure compliance with approved plans and adopted codes.

E. Training:

Training shall be conducted for code enforcement personnel.

CLASSIFICATION TABLE

CLASSIFICATION

	POINT SPREADS
1	93.00 - 100.00
2	85.00 - 92.99
3	77.00 - 84.99
4	65.00 - 76.99
5	56.00 - 64.99
6	48.00 - 55.99
7	39.00 - 47.99
8	25.00 - 38.99
9	10.00 - 24.99
10	0.00 - 9.99

ADMINISTRATION OF CODES

SECTION I

100. GENERAL:

This section evaluates the administrative support for code enforcement within the jurisdiction -- the adopted building codes and the modifications of those codes through ordinance, code enforcers qualifications, experience and education, zoning provisions, contractor/builder licensing requirements, public awareness programs, the building department's participation in code development activities, and the administrative policies and procedures.

105. ADOPTED CODES:

8.0 points

6

Jurisdictions should adopt and enforce the latest code edition of a nationally recognized building code development and publication organization. To be considered a nationally recognized building code organization, the organization must also provide training, individual certification, and product / procedure evaluation services.

Adopted regulations that are not developed by a nationally recognized building code development and publication organization may be prorated based on a comparison to the latest edition of nationally recognized building codes.

State or local amendments that modify or delete provisions for natural hazard mitigation within their adopted nationally recognized building code may be subject to proration of points available in this section.

If the published date of the listed codes is within 5 years of the date of Building Code(s) addressing commercial and /or residential	0 0
construction	8.00 points
If the published date of the listed codes is within 6 years of the date of Building Code(s) addressing commercial and /or residential	0 0
construction	
If the published date of the listed codes is within 10 years of the date Building Code(s) addressing commercial and /or residential	
construction	2.21 points
If an earlier edition of the listed codes is adopted: Building Code(s) addressing commercial and /or residential	
construction	0.85 point

If the mublished date of the listed and a is within E years of the date of the gradient	
If the published date of the listed codes is within 5 years of the date of the grading:	
Electrical Code 0.67 p	oint
Gas Code 0.67 p	oint
Mechanical Code 0.67 p	
Plumbing Code 0.67 p	
Energy Code 0.67 p	oint
Wildland Urban Interface Code 0.67 p	oint
If the published date of the listed codes is within 6 years of the date of the grading:	
Electrical Code 0.33 p	oint
Gas Code 0.33 p	oint
Mechanical Code 0.33 p	oint
Plumbing Code 0.33 p	oint
Energy Code 0.33 p	oint
Wildland Urban Interface Code 0.33 p	oint
If the published date of the listed codes is within 10 years of the date of the grading	g:
Electrical Code 0.18 p	oint
Gas Code 0.18 p	oint
Mechanical Code 0.18 p	oint
Plumbing Code 0.18 p	oint
Energy Code 0.18 p	oint
Wildland Urban Interface Code 0.18 p	oint
If an earlier edition of the listed codes is adopted:	
Electrical Code	noint
Gas Code	•
Mechanical Code	
Plumbing Code	•
Energy Code	
Wildland Urban Interface Code	•

110. MODIFICATION TO ADOPTED CODES

4.0 points**

There should be no modifications to the structural design provisions of the adopted codes and referenced standards that would weaken the intent for construction mitigation of natural hazards as defined in the model codes and referenced standards. No proration is permitted in this item.

^{**} Maximum allowable points = (Points credited in item 105) X 0.125 X 4.0

112. METHOD OF ADOPTION:

1.0 points

The building code adopting authority shall adopt and implement a coordinated set of codes published by a nationally recognized building code development and publication organization within 12 months of the publication of the codes. These codes shall be adopted without technical modification affecting natural hazard mitigation. Full credit must be achieved for items 105, 108 and 110 to be eligible for recognition under this section.

115. TRAINING: 13.0 points

The credit for training is as follows:

- **B.** Each code enforcement person receiving the following amount of training per year:

Administration	12 hours	1.25 points
Legal	12 hours	1.25 points
Mentoring	12 hours	1.25 points
Technical	60 hours	4.25 points

- **D.** Education of elected officials or governing authorities in building codes and building code enforcement a minimum of 3 hours per official per year 0.50 point

120. CERTIFICATION:

12.0 points

The credit for certification is as follows:

- **B.** State or local jurisdiction mandated program for certification 0.50 point

- **E.** Program of employee certification where specific code related education and experience are required prerequisites to testing requirements......1.00 point

125. BUILDING OFFICIAL'S QUALIFICATION / EXPERIENCE / EDUCATION: 4.0 POINTS

The following is reviewed:

- Building official's qualifications
- Certification as a building official
- Education, including a designation as a registered design professional
- Work experience in the fields of construction and code enforcement
- Experience as a building official

130. SELECTION PROCEDURES FOR BUILDING OFFICIAL: 0.5 POINT The selection process for a building official is designed to select the most qualified candidate. 135. DESIGN PROFESSIONALS: **2.00 POINTS** The credit for design professionals is as follows: **A.** If supervisory plan review staff are graduate or registered architects **B.** If non-supervisory plan review staff are graduate or registered architects **C.** If supervisory field inspection staff are graduate or registered architects 140. ZONING PROVISIONS: **1.0 POINT** Where possible, special (through ordinance or code amendment) zoning provisions that address mitigation measures for buildings subject to local natural hazards. 145. CONTRACTOR/BUILDER LICENSING AND BONDING: **1.0 POINT** Contractors/builders licensed and bonded to work in the jurisdiction being graded. The licensure is dependent upon examination and experience. 155. PUBLIC AWARENESS PROGRAMS: 2. 5 POINTS The credit for public awareness programs is as follows: A. The amount of expenditures for public awareness programs equaling a minimum of 0.5% of the annual operating budget for all building department related B. The amount of hours spent by code enforcers on public awareness programs, equaling a minimum of 3 hours per code enforcement employee per year 1.25 points 160. PARTICIPATION IN CODE DEVELOPMENT ACTIVITIES: The building department involvement in code development activities and associations with groups or organizations that assemble building enforcement personnel for the purpose of education and advancement of effective building codes. 165. ADMINISTRATIVE POLICIES AND PROCEDURES: 0.5 POINT The credit for "Policies and Procedures" is as follows: A. A formal appeal process that a contractor/builder or architect/design professional can utilize as recourse to a building official's interpretation of the adopted building code/zoning regulations 0.30 point **B.** A policies and procedures guide for employees 0.10 point C. Where the policies and procedures guide covers technical code requirements (such as

SECTION II PLAN REVIEW

SECTION II

200. GENERAL:

This section evaluates the plan review function to determine the following:

- Staffing levels
- Personnel experience
- Performance evaluation schedules
- Review capabilities, and level of review of construction documents for compliance with the adopted building code for the jurisdiction being graded.

205. EXISTING STAFFING:

9.0 POINTS**

Staffing levels sufficient to assure comprehensive reviews of construction documents for compliance with the adopted building codes.

Detail of commercial plan review calculation

$$\left[A \div \left(\left(\frac{B}{C}\right) \div D\right)\right] \times E \times \frac{F}{G} =$$

Α	A Optimum number of commercial building plan		Number of working days in a year
reviews preformed per day (constant = 1)			(constant = 220)
B Number of commercial building plan reviews		Е	Points available in section 205
	performed		(constant = 9.0)
С	Number of commercial building plan	F	Points achieved in section 215
	reviewers		
		G	Points available in section 215
			(constant =11.5)

Detail of residential plan review calculation

$$\left[H \div \left(\left(\frac{I}{J}\right) \div D\right)\right] \times E \times \frac{F}{G} =$$

H optimum number of residential building plan		Number of working days in a year
reviews preformed per day (constant = 2)		(constant = 220)
I Number of residential building plan reviews		Points available in section 205
performed		(constant = 9.0)
Number of residential building plan reviewers	F	Points achieved in section 215
	G	Points available in section 215
		(constant = 11.5)
	reviews preformed per day (constant = 2) Number of residential building plan reviews performed	reviews preformed per day (constant = 2) Number of residential building plan reviews performed Number of residential building plan reviewers F

210. EXPERIENCE OF PERSONNEL 1.5 POINTS 5 years or greater experience in plan review of plan review staff. 215. DETAIL OF PLAN REVIEW: **11.5 POINTS** The credit for the comprehensiveness of plan review is as follows: A. Comprehensive review of plans performed even if they were prepared and sealed by a registered design professional certified in the appropriate field of **B.** Structural plan reviews conducted for all proposed building construction or building additions/modifications including a review of engineering C. A means to evaluate, or reference evaluation service reports, for substitute products and/or materials for conformance with the intent of the structural portions of the **D.** A detailed checklist used with each plan review to assure all pertinent building code E. Detailed record keeping of plan review activity. Records should include number of plan reviews conducted by the department or other approved agency, type of project reviewed (i.e. new, renovation, addition), codes reviewed against (i.e. building, mechanical, gas, plumbing, electrical) and date of release.............. 1.00 points 220. PERFORMANCE EVALUATIONS FOR QUALITY ASSURANCE: **1.0 POINT** Credit for quality assurance programs for plan reviewers is as follows:

semiannually 0.50 point

B. "Follow-up" plan reviews by a different plan reviewer conducted

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SECTION III FIELD INSPECTION

SECTION III

300. GENERAL:

This section evaluates the field inspection function to determine the following:

- Staffing levels
- Personnel experience
- Performance evaluation schedules
- Review capabilities and level of review of building construction

305. EXISTING STAFFING:

9.0 POINTS

Staffing levels sufficient to assure comprehensive reviews of building construction for compliance with the adopted building codes.

310. EXPERIENCE OF PERSONNEL:

3.0 POINTS

5 years or greater experience in field inspection and prior construction related experience of 2 years or greater.

315. MANAGING INSPECTION AND RE-INSPECTION ACTIVITY: 1.0 POINT

Detailed record keeping of inspection activity. Records should include number of inspections, re-inspections conducted by the department or other approved agency and codes inspected against (i.e. building, mechanical, gas, plumbing, electrical).

320. INSPECTION CHECKLIST:

2.0 POINTS

A detailed checklist completed for each building construction project to assure that all pertinent building code issues have been considered. The checklist becomes a part of the permanent record of the project address.

325. SPECIAL INSPECTIONS:

1.0 POINT

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Where necessary to assure structural integrity, the building department requirement for special inspections for specific structural elements conducted by professional inspectors who have been certified for such work by a combination of: 1) an interview by the building official to assess qualifications, 2) examination and, 3) experience in the field of inspection they will be performing.

330. INSPECTIONS FOR NATURAL HAZARD MITIGATION: 1.5 POINTS

When there are construction mitigation measures defined in the adopted building code for the natural hazard(s) peculiar to the area being graded, special inspections that focus upon compliance with the provisions of the code.

335. FINAL INSPECTIONS:

2.5 POINTS

Final inspections performed on all buildings after the construction is completed and the building is ready for occupancy.

340. CERTIFICATE OF OCCUPANCY:

2.0 POINTS

Certificates of occupancy issued by the building department after the construction is completed and prior to the building being occupied.

345. PERFORMANCE EVALUATIONS FOR QUALITY ASSURANCE

1.0 POINT

Credit for quality assurance programs for field inspectors is as follows:

A. Annual employee performance evaluations 0.50 point

B. "Follow-up" field inspections by a different field inspector conducted semiannually 0.50 point

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Notes



Insurance Services Office, Inc.
Risk Decision Services, 18-11
545 Washington Boulevard
Jersey City, NJ 07310-1686
www.iso.com