Florida Building Structural Safety Inspection Program

August 15, 2024, at 10-11:30 a.m. August 19, 2024, at 1-2:30 p.m.

August 23, 2024, at 2-3:30 p.m.

Facilitator/Moderator: **Jeff Blair**, *Florida Building Commission Facilitator*, Facilitated Solutions, LLC

Presenter: Jennifer A. Bridge, PhD, Associate Professor, Engineering School of Sustainable Infrastructure and Environment, University of Florida

Presented on behalf of the Florida Building Commission



- Presentation (30 minutes)
 - Background
 - Building Safety Legislation
 - Milestone Inspection Requirements
 - Inspection Form(s)
 - Additional Resources
- Q & A with panelists (30 minutes)
 - > Facilitator/Moderator: Jeff Blair, Florida Building Commission Facilitator, Facilitated Solutions, LLC
 - > Tony Apfelbeck, Director of Building and Fire Safety, City of Altamonte Springs
 - William Bracken, PE, SI, FRSE, Technical Training Manager, International Code Council
 - Mo Madani, Technical Director, Building Codes & Standards
 - > Jim Schock, P.E., S.I., C.B.O., Vice Chairman, Florida Building Commission

Webinar Objectives

- Provide background on legislation related to Milestone Inspections
- Introduce Chapter 18: Minimum Requirements for the Mandatory Milestone Inspection and relevant definitions
- Describe Milestone Inspection requirements for owners, inspectors, and local enforcement agencies
 - Phases 1 and 2
 - > Timelines
 - Reporting requirements
- Introduce the fillable pdf inspection forms
- Answer participant questions

Background

- Following the 2021 Champlain Towers South collapse in Surfside, Florida, the Legislature recognized the need for a statewide structural inspection program for aging condominium and cooperative buildings to ensure their continued safety
- Florida Condo Safety Act:
 - Florida Legislature passed Florida Statute 553.899 in May 2022
 - Florida Building Commission to establish a building safety program within the Florida Building Code
 - Mandates milestone structural inspections for condominium and cooperative buildings



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Legislation Implemented in Code

Florida Building Commission established a working group to implement legislation:

- Created Chapter 18: Minimum Requirements for the Mandatory Milestone Inspection
 - Draft supplement to the 8th Ed. (2023) Florida Building Code, Existing Building
- Created common forms to be used during milestone inspections



Mandatory Milestone Inspections

- Buildings subject to inspections:
 - Condominium or cooperative form of ownership
 - > Three or stories or more in height
 - Exempt: Single-family, two-family, three-family, or four-family dwellings with three or fewer habitable stories above ground
- Requires a structural inspection of a building, including:
 - Primary Structural Member [s.627.706(2)(d), FS] a structural element designed to provide support and stability for vertical or lateral loads within the overall structure
 - Primary Structural System [s.627.706(2)(e), FS] an assemblage of primary structural members working together to support the building's load
- Conducted by either:
 - > An architect licensed under Chapter 481, Florida Statutes
 - An engineer licensed under Chapter 471, Florida Statutes

Milestone Inspection Phases

Phase 1

- Visual examination of the building's habitable and non-habitable areas, including major structural components
- Provides a *qualitative assessment* of the building's structural conditions
- Inspector must prepare and submit an inspection report
- Building official must be notified if unpermitted work is discovered in the structural components

Phase 2

- Necessary if signs of substantial structural deterioration identified during Phase 1
- May involve destructive or nondestructive testing as directed by the inspector
- The extent of the inspection depends on assessing areas of structural distress to confirm the building's structural soundness and safety for its intended use

Milestone Inspection Phases

Phase 1

Phase 2

• Visual examination of the building's habitable

Substantial Structural Deterioration [s.553.899(2)(b), FS]

- Refers to a condition negatively affecting a building's structural condition and integrity
 - Excludes surface imperfections like cracks, distortion, sagging, deflections, misalignment, and signs of leakage

inspection report

 Building official must be notified if unpermitted work is discovered in the structural components confirm the building's structural soundness and safety for its intended use

Necessary if signs of substantial structural

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Milestone Inspection Scope

Background considerations:

- Identification of structural system
- Code baseline
- Loading conditions
- Violations or unpermitted activities
- Previous repairs
- Previous reports

Inspection of:

- Foundation
- Masonry bearing walls
- Floor and roof systems
- Steel framing systems
- Concrete framing systems
- Windows and doors
- Wood framing

Building facade

Inspection Timeline

- Milestone inspections are to start when a building reaches 30 years of age
- Initial Milestone Inspection (based on certificate of occupancy issuance date):

Date building reaches 30 years of age	Date by which initial inspection must be completed
Before Jul.1, 2022	December 31, 2024
Between Jul. 1, 2022, and Dec. 31, 2024	December 31, 2025
After Dec. 31, 2024	December 31 of the year the building reaches 30 years of age

- Every 10 years thereafter
- Local enforcement agency may require inspections to start at 25 years due to specific local conditions

Inspection Timeline

- Acceptance of previous report:
 - The local enforcement agency may accept a report for a structural integrity and condition inspection performed before July 1 of the year the building turns 30
 - Report must substantially comply with the applicable requirements in Florida Statutes
 - The deadline for subsequent 10-year milestone inspections is based on the date of the accepted previous inspection



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Inspection Timeline

- When a milestone inspection is due, the local enforcement agency must provide written notice to the condominium or cooperative association
- Phase 1 inspection must be completed within 180 days of the building's owner(s) receiving the written notice
- Local enforcement agency may grant extensions for certain conditions
- If a Phase 2 inspection is required, the report must be submitted within 180 days of submitting the Phase 1 inspection report



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Inspection Responsibility

- Each party is responsible for ensuring compliance inspection requirements
- The condominium or cooperative association bears the responsibility for all costs associated with the milestone inspection
- Local enforcement agencies have the authority to prescribe timelines and penalties for compliance to ensure adherence to required inspection schedules
- The milestone inspection report must be obtained by
 - Condominium or cooperative association
 - Owners of any portion of the building not subject to the condominium or cooperative form of ownership



Carol M. Highsmith, Public domain, via Wikimedia Commons

Repair Timeline

If repairs or modifications are necessary

- > Owner has 180 days from the date of the inspection report to commence the repair
- Failure to submit proof of scheduled or commenced repairs within the required timeframe may result in the structure being deemed unsafe and unfit for occupation
- If repairs cannot be commenced within the initial 180 days, an additional 185-day extension (not exceeding 365 days) may be granted
 - The extension is specified by either milestone inspection inspector or architect or engineer of record for the repairs
 - Active building permits must be maintained during the extension period



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Completion of Repairs

- After all required repairs have been completed, the original milestone inspector must:
 - Re-inspect the areas noted in the original report
 - Provide an amended report with a signed and sealed letter stating that all necessary repairs and corrections have been completed
 - Confirm that the building acceptable for continued use under the present occupancy
- The building owner or the responsible inspector must submit this letter to the building official

Report Criteria

- Bear the seal and signature (or electronic signature) of the qualified inspector
- Indicate the manner and type of inspection forming the basis for the report
- Identify substantial structural deterioration (within a reasonable professional probability)
- Describe the extent of deterioration and recommend repairs
- State whether unsafe or dangerous conditions (as defined in the Florida Building Code) were observed
- Recommend remedial or preventive repair for damaged items (not substantial structural deterioration)
- Identify and describe any items requiring further inspection

Milestone Inspection Report Forms

- The Milestone Inspection Report Forms serve as the minimum inspection compliance for both Phase 1 and Phase 2 milestone inspection requirements
- The forms ensure standardized reporting and consistency in documenting milestone inspections
- Two fillable pdf forms (one for each phase) are provided

MILESTONE INSPECTION REPORT FORMS - STRUCTURAL BSIP INSPECTION F	Form	Table of contents
Form EB18 – 2024	allows navigation to	
MILESTONE INSPECTION REPORT FORM PHASE 1		each section
TABLE OF CONTENTS - Click on the subject or page number to advance to each se		
Licensed Engineer(s) or Architect(s) Responsible for the Milestone Inspection	Page 1	
1. Description of Structure	Page 4	
2. Present Condition of Structure	Page 5	
3. Inspections	Page 7	
4. Supporting Data Attached	Page 7	
5. Foundation	Page 8	
6. Masomy Bearing Wall	Page 9	
7. Floor and Roof System	Page 11	
8. Steel Framing System	Page 16	
9. Concrete Framing System	Page 17	
10. Windows, Storefronts, Curtainwalls, and Exterior Doors	Page 19	
11. Wood Framing	Page 21	
12. Building Façade Inspection	Page 23	
13. Special or Unusual Features in the Building	Page 23	
14. Deterioration	Page 23	
15. Unsafe Conditions	Page 24	
16. Safe Occupancy Determination	Page 24	
17. Summary of Findings	Page 25	
Review of Existing Documents and Permit Records	Page 25	
19. Definition of Terms	Page 26	

	Section			Section		
	Inspector Information, Dates, I Signature and Seal	Findings, Inspection & Background Information		0	Windows, Storefronts, Curtainwalls, and Exterior Doors	
1	Description of Structure			1	Wood Framing	
2	Present Condition of Structure			2	Building Façade	
3	3 Inspections		1	3	Special/Unusual Features	
4	Supporting Data Attached		1	4	Deterioration	
5	Foundation		1	5	Unsafe Conditions	
6	Masonry Bearing Wall	Description &	1	6	Safe Occupancy Determinations	
7	Floor and Roof System	Condition Assessment	1	7	Summary of Findings	
8	Steel Framing System	of Systems	1	8	Review of Existing Documents/Permits	
9	Concrete Framing System		1	9	Definition of Terms	

- Three types of inputs:
 - Radio buttons
 - Only one selection allowed
 - Check boxes
 - More than one box may be checked
 - Fields for written responses
 - Component descriptions
 - Explanations of certain conditions

Enter text

Wood	uardrail, skip to "c. Inspectio	material on") Glass	None	
Metal	Ungalvanized Steel	CMU Knee	wall	
Aluminur	n 📃 Concrete Kneewall	Other		
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	Section			Section		
	Inspector Information, Dates, Signature and Seal	Findings, Inspection & Background Information		10	Windows, Storefronts, Curtainwalls, and Exterior Doors	
1	Description of Structure			11	Wood Framing	
2	Present Condition of Structure			12	Building Façade	
3	Inspections			13	Special/Unusual Features	
4	Supporting Data Attached			14	Deterioration	
5	Foundation			15	Unsafe Conditions	
6	Masonry Bearing Wall	Description &		16	Safe Occupancy Determinations	
7	Floor and Roof System	Condition Assessment		17	Summary of Findings	
8	Steel Framing System	of Systems		18	Review of Existing Documents/Permits	
9	Concrete Framing System			19 Definition of Terms		

Condition Rating Definitions

Report Form Section 19

- Good: <u>No</u> substantial structural deterioration and <u>no</u> dangerous condition observed
- Fair: <u>Indication</u> of substantial structural deterioration was observed, and <u>no</u> dangerous conditions were observed
- Poor: <u>Actual</u> substantial structural deterioration observed, and <u>no</u> dangerous condition observed
- Significant: Any observation that is an <u>indication</u> of a <u>dangerous</u> condition or <u>actual</u> <u>dangerous</u> condition

Relevant Definitions

Dangerous [Chapter 2, 2023 FBC - Existing Building]

- Any building, structure, or portion thereof that meets any of the conditions described below shall be deemed dangerous:
 - The building or structure has collapsed, has partially collapsed, has moved off its foundation, or lacks the necessary support of the ground
 - There exists a significant risk of collapse, detachment, or dislodgment of any portion, member, appurtenance, or ornamentation of the building or structure under permanent, routine, or frequent loads; under actual loads already in effect; or under wind, rain, flood, or other environmental loads when such loads are imminent



LESS-IMMEDIATE

If left unaddressed, would "endanger life or property"



	Section			Section	
	Inspector Information, Dates, Findings, Signature and Seal Inspection &		10	Windows, Storefronts, Curtainwalls, and Exterior Doors	
1	Description of Structure	Background Information	11	Wood Framing	
2	Present Condition of Structure			Building Façade	
3	Inspections		13	Special/Unusual Features	
4	Supporting Data Attached		14	Deterioration	
5	Foundation		15		
6	Masonry Bearing Wall	Description &	16	Safe Occupancy Determinations	
7	Floor and Roof System	Condition Assessment	17	Summary of Findings	
8	Steel Framing System	of Systems	18	Review of Existing Documents/Permits	
9	Concrete Framing System		19	Definition of Terms	

Relevant Definitions

Unsafe Conditions [Section 115, 2023 FBC, Exiting Building]

- Buildings that are unsafe, unsanitary, or deficient due to inadequate means of egress facilities, insufficient light, ventilation, fire hazards, or other dangers to human life or public welfare
- If a building is deemed unsafe, it must either be taken down and removed or made safe according to the code official's assessment
- A vacant building without proper security against unauthorized entry is also considered unsafe
- If an owner fails to provide proof of scheduled or ongoing repairs for substantial structural deterioration identified in a phase two milestone inspection report, then the local enforcement agency must review whether the building is unsafe for human occupancy

Summary of Findings

17. SUMMARY OF FINDINGS	Reset Section 17
The below Condition(s) were noted within this Phase 1 Inspection.	Phase 2 Inspection Required:
Indication of Dangerous Condition Observed	🔘 Yes 🔵 No
Actual Dangerous Condition Observed	🔘 Yes 🔵 No
Indication of Substantial Structural Deterioration Observed	🔘 Yes 🔵 No
Actual Substantial Structural Deterioration Observed	🔘 Yes 🔵 No
Indication of Need for Maintenance	🔘 Yes 🔵 No
Indication of Need for Repair	🔿 Yes 🔵 No
Indication of Need for Replacement	🔘 Yes 🔵 No
Inaccessible Condition of Structural Component	🔘 Yes 🔵 No

	Section			Section		
	Inspector Information, Dates, Signature and Seal			10	Windows, Storefronts, Curtainwal Exterior Doors	lls, and
1	Description of Structure			11	Wood Framing	
2	Present Condition of Structure			12	Building Façade	
3	Inspections			13	Special/Unusual Features	
4	Supporting Data Attached			14	Deterioration	
5	Foundation			15	Unsafe Conditions	Overall
6	Masonry Bearing Wall	Description &		16	Safe Occupancy Determinations	Findings
7	Floor and Roof System	Condition Assessment		17	Summary of Findings	
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Please check all that apply.	Licensed Design	Architect	
Substantial Structural Deterioration Observed; Phase 2 inspection is required	Professional:		
Reason to Believe a Dangerous Inaccessible Condition of Major Structural Component; Phase 2 inspection is required to complete Milestone Inspection of Inaccessible Conditions	Name: License Number:	Seal	
*A condition exists that the Milestone Inspector determines would need a Phase 2 Inspection or structural evaluation of the specific item identified or area in order to determine whether a dangerous condition exists.	Click the button below to check if all required fields are completed. If they are not, you will be told which fields must be completed.		
Immediate Dangerous Condition Observed; Notify Building and Fire Official; Structural Evaluation	If they are, the signature box below will unlock, allowing you to sign and	lock the form.	
May be required, possible Shoring and a Phase 2 inspection is required	Check Required Fields		
Maintenance Needed but does not raise to the level of Substantial Deterioration or Dangerous Phase 1 Inspection Passes Passed Phase 1 Inspections	I am qualified to practice in the discipline in which I am hereby sig Signature: Date This report has been based upon the minimum milestone inspection requirem Code, Existing Building: To the best of my knowledge and ability, this report condition of the structure, based upon careful evaluation of observed condition See: General Considerations & Guideline	nents as listed in <i>Chapter 18 of the Florida Building</i> represents an accurate appraisal of the present	
	Supporting Data Attached:		
	Add Attachments 4. SUPPORTING DATA	A ATTACHED	Reset Section 4
	Check if attached:		
	a. Sheets of written d	lata: 🔵 Yes 🔵 No	
	b. Photographs:	Yes No	

c. Drawings or sketches:

d. Test reports:

○No

O Yes

Report Form Considerations

Use Adobe Acrobat or Adobe Reader to complete form



Form cannot be signed until all sections are complete

Form is locked after signed and sealed



Submit the form according to local enforcement agency guidance

- Navigation and form completion tools the same as Phase 1 form
- First several pages and Section 1 are the similar to Phase 1 form
- Sections 2 8 are descriptive text fields

MILESTONE INSPECTION REPORT FORMS - STRUCTURAL BSIP INSPECTION FORM

Form EB18 - 2024

MILESTONE INSPECTION REPORT FORM PHASE 2

TABLE OF CONTENTS - Click on the subject or page number to advance to each section

Licensed Engineer of Architect Responsible for Milestone	Page 1
Inspection Licensed Design Professional 1 Certification	Page 2
Licensed Design Professional 2 Certification	Page 3

1.	Description of Structure	Page 4
2.	References Cited Under Phase 1 Report Follow-Up	Page 5
3.	Identify the Damage and Describe the Extent of the Substantial Structural Deterioration	Page 5
4.	Identify and Define Areas Requiring Added Inspection / Results of Testing	Page 5
5.	Describe Manner and Type of Inspection Performed	Page 5
6.	Provide Graded Urgency of Each Recommended Repair	Page 6
7.	State Whether Unsafe Conditions Exist	Page 6
8.	Any Items Requiring Additional Inspection	Page 6
9.	Safe Occupancy Determination	Page 7
10). Summary of Findings	Page 7

Page 1: Summary of Phase 1 Findings Check Boxes

MILESTONE INSPECTION REPORT FORMS - STRUCTURAL BSIP INSPECTION FORM			
Form EB18 – 2024			
MILESTONE INSPECTION REPORT FORM			
PHASE 2 Milestone Inspection	Reset Page 1		
Please check all that apply:			
Summary of Phase 1 Findings			
Substantial Structural Deterioration Observed; Structural Evaluation is required.			
Inaccessible Condition of Major Structural Component; The Milestone Inspection was not able to conclude the Structural Condition of inaccessible areas.			
Potentially Dangerous Condition Observed; Structural Evaluation is required.			
Dangerous Condition Observed; Notify Building Official; Structural Evaluation is required.			

 9. SAFE OCCUPANCY DETERMINATION Based on the results of the inspection, does the building or any presecured, or access limited? If so, what portions of the building those portions need to be vacated, secured, or access limited? Yes 		
10. SUMMARY OF FINDINGS		
 The below Condition(s) were noted within this Phase 2 Inspection. The Building has Substantial Structural Deterioration or is considered dangerous, Corrective Action is A Need for Maintenance was Observed, but Does Not Meet the Standard of Substantial Structural Deterioration at This Time. The Building Passes the Milestone Inspection Program. There Are No Signs of Substantial Structural Deterioration. The Building Passes the Milestone Inspection Program. Corrective Action is required. Upon completion of corrective work file an Ammended Phase 1 Inspective Action is required. 		
	*Upon completion of the corrective action the Design Professional in charge of the Milestone Inspection must submit an amended Phase with Milestone Inspection Report per Chapter 18 of the Florida Building Code - Existing Buildings. Add Attachments	

35



- As required by the Florida Legislature, the Florida Building Commission has implemented a building safety inspection program within the Florida Building Code
- Mandatory Milestone Inspections are required for all condominium and cooperatives with three or more stories when they reach 30 years of age, and every 10 years thereafter
- Local enforcement agencies provide notification for required inspections, manage timelines as needed to adhere to the requirements of the statues, and maintain all relevant reporting and permitting data
- Milestone inspections are performed in two phases, with the more detailed second phase only required if the first indicates signs of substantial structural deterioration
- Standardized inspections forms are to be used for both inspection phases, and completed reports are to be furnished to the local enforcement agency and building owners/associations



For more information:

https://www.floridabuilding.org/fbc/Links_to_Code_Resources.html https://www.floridabuilding.org/fbc/workgroups/Existing_Buildings/Existing_Buildings.htm

- Fact Sheet
- General Guidelines
- Milestone Inspection Forms
- On-demand Course
- Instructional Video on Completing Milestone Inspection Forms: <u>https://vimeo.com/947154019</u>

Q&A Panelists

Facilitator/Moderator: Jeff Blair, Florida Building Commission Facilitator, Facilitated Solutions, LLC

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