R2021-14: A RESOLUTION TO ADOPT THE FLOODPLAIN MANAGEMENT AND HAZARD MITIGATION PLAN FOR THE CITY OF MYRTLE BEACH

<u>Applicant/Purpose:</u> Staff/ to request Council approve & adopt 2020 revised Floodplain Management/Hazard Mitigation plan

### **Brief:**

- Federal Disaster Management Act of 2000 requires communities to create plan to qualify for federal disaster funding.
- Last plan update was accepted by FEMA in 2015. Current plan has now received FEMA's preliminary approval & is ready for Council adoption.

# <u>Issues:</u>

- Plan required for Community Rating System, which saves flood insurance policyholders in Myrtle Beach over \$1,000,000 annually.
- Identifies 40 tasks that City could do or is already doing to help meet the mitigation goals:
  - o Protecting life & property from hazards.
  - o Preserving beaches, wetlands, swashes, & waterways.
  - o Continue to develop and implement storm water drainage plans.
  - Create and foster a comprehensive public awareness for all hazards in the community.
  - o Improving public safety & municipal services under emergency conditions.
  - o Preserving neighborhoods & land use plan.
  - o Reducing economic impacts from hazard events.

**Public Notification:** Normal meeting notification.

<u>Alternatives:</u> None considered. Plan is required by CRS & to participate in Hazard Mitigation Grant Program (HMGP) funds. Future federal disaster funding is contingent on plan approval.

<u>Financial Impact</u>: City's participation in CRS saved residents estimated \$1,000,000 annually in flood insurance premiums.

#### Manager's Recommendation:

 • I recommend approval.

<u>Attachment(s):</u> Proposed resolution.

U. S. Department of Homeland Security Region IV 3005 Chamblee Tucker Road Atlanta, GA 30341



February 17, 2021

Candice Shealey, SC CEM Hazard Mitigation Manager South Carolina Emergency Management Division 2779 Fish Hatchery Road West Columbia, SC 29172

Reference: Hazard Mitigation Plan: City of Myrtle Beach

Dear Mrs. Shealey:

This is to confirm that we have completed a Federal review of the draft City of Myrtle Beach Hazard Mitigation Plan for compliance with the Federal hazard mitigation planning requirements contained in 44 CFR 201.6(b)-(d). We have determined that the City of Myrtle Beach Hazard Mitigation Plan is now compliant with Federal requirements, subject to formal community adoption.

In order for our office to issue formal approval of the plan, the City of Myrtle Beach must submit adoption documentation. Upon submittal of a copy of documentation of the adoption resolution(s) to our office, we will issue formal approval of the City of Myrtle Beach Hazard Mitigation Plan. Please have the City of Myrtle Beach submit a final copy of their Plan, without draft notations and track changes.

For further information, please do not hesitate to contact, Kenya Grant, of the Hazard Mitigation Assistance Branch, at (202) 320-3338 or Jake Grabowsky, of my staff, at (202) 856-1901.

Sincerely,

Kristen M. Martinenza, P.E., ČFM

Krista M. Matury

Branch Chief Risk Analysis FEMA Region IV The Local Mitigation Plan Review Tool demonstrates how the Local Mitigation Plan meets the regulation in 44 CFR §201.6 and offers States and FEMA Mitigation Planners an opportunity to provide feedback to the community.

- The <u>Regulation Checklist</u> provides a summary of FEMA's evaluation of whether the Plan has addressed all requirements.
- The <u>Plan Assessment</u> identifies the plan's strengths as well as documents areas for future improvement.
- The <u>Multi-jurisdiction Summary Sheet</u> is an optional worksheet that can be used to document how each jurisdiction met the requirements of the each Element of the Plan (Planning Process; Hazard Identification and Risk Assessment; Mitigation Strategy; Plan Review, Evaluation, and Implementation; and Plan Adoption).

The FEMA Mitigation Planner must reference this *Local Mitigation Plan Review Guide* when completing the *Local Mitigation Plan Review Tool*.

Jurisdiction: City of Myrtle Beach	1		of Myrtle Beach n Plan Update	Date of Plan: November 2020			
Local Point of Contact: Margaret V	Valton		Address: 1616 Mi Raleigh, NC 27609	Ilbrook Road, Suite 160			
Title: Senior Planner II, Land Planni	ing						
Agency: Atkins Global Consulting							
Phone Number: (803) 622-4142			E-Mail: margaret.	walton@atkinsglobal.com			
State Reviewer: Lindsey McCoy		Title: H Coordin	M Planning nator	Date: 12/02/2020			
FEMA Reviewer:		Title:		Date:			
Jake Grabowsky Carl Mickalonis		Hazard	Mitigation Planner nning Lead				
Date Received in FEMA Region (inse	ert #)	12/09/	09/2020				
Plan Not Approved							
Plan Approvable Pending Adoptio	n	02/17/	//2021				
Plan Approved							

# SECTION 1: REGULATION CHECKLIST

INSTRUCTIONS: The Regulation Checklist must be completed by FEMA. The purpose of the Checklist is to identify the location of relevant or applicable content in the Plan by Element/sub-element and to determine if each requirement has been 'Met' or 'Not Met.' The 'Required Revisions' summary at the bottom of each Element must be completed by FEMA to provide a clear explanation of the revisions that are required for plan approval. Required revisions must be explained for each plan sub-element that is 'Not Met.' Sub-elements should be referenced in each summary by using the appropriate numbers (A1, B3, etc.), where applicable. Requirements for each Element and sub-element are described in detail in this *Plan Review Guide* in Section 4, Regulation Checklist.

1. REGULATION CHECKLIST	Location in Plan (section and/or		Not
Regulation (44 CFR 201.6 Local Mitigation Plans)	page number)	Met	Met
ELEMENT A. PLANNING PROCESS			
A1. Does the Plan document the planning process, including how it	a. 2:3 – 2:6		
was prepared and who was involved in the process for each	(11-14)		
jurisdiction? (Requirement §201.6(c)(1))	b. 2:5 (13)		
	c. $2:4-2:6$		
QC concurs: second meeting needs to occur.	(12-14)	X	
	d. $2:3-2:6$		
	(11-14),		
	Appendix D		
	e. 2.3		
A2. Does the Plan document an opportunity for neighboring	a. 2:9-2:10		
communities, local and regional agencies involved in hazard	(17-18), 2:5-		
mitigation activities, agencies that have the authority to regulate	2:6		
development as well as other interests to be involved in the	Appendix D		
planning process? (Requirement §201.6(b)(2))	b. 2:5 – 2:6	X	
	(13-14)	^	
	c. $2:3-2:6$		
	(11-14),		
	Appendix D		
A3. Does the Plan document how the public was involved in the	a. 2:6 – 2:9		
planning process during the drafting stage? (Requirement	(15-17)		
§201.6(b)(1))	Appendix D		
	b. 2:6 – 2:9		
	(15-	X	
	17)Appendix		
	D		
A4. Does the Plan describe the review and incorporation of existing	a. 6:3 – 6:4		
plans, studies, reports, and technical information? (Requirement	(169-170)		
§201.6(b)(3))	b. 6:5 – 6:9	X	
-00 2000 000	(174-175)		
QC concurs			

1. REGULATION CHECKLIST	Location in Plan (section and/or		Not
Regulation (44 CFR 201.6 Local Mitigation Plans)	page number)	Met	Me
A5. Is there discussion of how the community(ies) will continue	a. 9:4 – 9:5		
public participation in the plan maintenance process?	(205-206)	X	
(Requirement §201.6(c)(4)(iii))			
A6. Is there a description of the method and schedule for keeping	a. 9:1 – 9:5		
the plan current (monitoring, evaluating and updating the	(202-206)		
mitigation plan within a 5-year cycle)? (Requirement	b. 9:1 – 9:5		
§201.6(c)(4)(i))	(202-206)		
	c. $9:1-9:5$	X	
	(202-206)		
	d. $2:3-2:6$		
	(11-14)		
ELEMENT A: REQUIRED REVISIONS  ELEMENT B. HAZARD IDENTIFICATION AND RISK ASSESSM	IFNT		
		Γ	
B1. Does the Plan include a description of the type, location, and	a. 4:1 – 4:92		
extent of all natural hazards that can affect each jurisdiction(s)?	(25-116) b. N/A		
(Requirement §201.6(c)(2)(i))		X	
		^	
	(25-113) d. 4:1 – 4:89		
	(25-113)		
B2. Does the Plan include information on previous occurrences of			
hazard events and on the probability of future hazard events for	a. 4:1 – 4:89 (25-113)		
each jurisdiction? (Requirement §201.6(c)(2)(i))	b. 4:92 – 4:95		
each jurisdiction: (Nequirement \$201.0(c)(2)(ii)	(116-119)	X	
	c. 4:1 – 4:89		
	(25-113)		
B3. Is there a description of each identified hazard's impact on the	a. 4:1 – 4:89	<u> </u>	
community as well as an overall summary of the community's	(25-113)		
vulnerability for each jurisdiction? (Requirement §201.6(c)(2)(ii))	b. 5:37 – 5:83	X	
value ability for each jurisdiction. (Negalieriett 320210(c)(2)(1))	(120-166)		
QC concurs	,		
B4. Does the Plan address NFIP insured structures within the	a. 4:65 – 4:66		
jurisdiction that have been repetitively damaged by floods?	(89-90)	(1)	
(Requirement §201.6(c)(2)(ii))		X	
QC concurs			
QC concurs ELEMENT B: REQUIRED REVISIONS			

1. REGULATION CHECKLIST	Location in Plan		Not
Regulation (44 CFR 201.6 Local Mitigation Plans)	(section and/or page number)	Met	Met
C1. Does the plan document each jurisdiction's existing authorities, policies, programs and resources and its ability to expand on and improve these existing policies and programs? (Requirement §201.6(c)(3))	a. 6:3 – 6:15 (167 – 181)	X	
QC concurs			
C2. Does the Plan address each jurisdiction's participation in the NFIP and continued compliance with NFIP requirements, as appropriate? (Requirement §201.6(c)(3)(ii))	a. 6:9 – 6:10 (175-176)	X	
QC concurs	7.2 (404)		
C3. Does the Plan include goals to reduce/avoid long-term vulnerabilities to the identified hazards? (Requirement §201.6(c)(3)(i))	a. 7:3 (184) b. 7:3 (184)	X	
C4. Does the Plan identify and analyze a comprehensive range of	a. 8:1 - 8:14		
specific mitigation actions and projects for each jurisdiction being	(190-201)		
considered to reduce the effects of hazards, with emphasis on new	b. 8:1 – 8:14	X	
and existing buildings and infrastructure? (Requirement	(190-201)		
§201.6(c)(3)(ii))	c. 8:1 – 8:14		
C5. Does the Plan contain an action plan that describes how the	(190-201) a. 7:2 (183)		
actions identified will be prioritized (including cost benefit review),	b. 7:2 (183)		
implemented, and administered by each jurisdiction? (Requirement	c. 8:1 – 8:14	X	
§201.6(c)(3)(iv)); (Requirement §201.6(c)(3)(iii))	(190-201)		
C6. Does the Plan describe a process by which local governments	a. 6:3 – 6:15		
will integrate the requirements of the mitigation plan into other	(167 - 181)		
planning mechanisms, such as comprehensive or capital	b. $6:3-6:4$		
improvement plans, when appropriate? (Requirement	(169-170)		
§201.6(c)(4)(ii))	c. N/A	X	
	d. 6:3 – 6:15		
	(167 – 181) e. 6:3 – 6:15		
	(167 - 181)		
ELEMENT C: REQUIRED REVISIONS	(20)		
ELEMENT D. PLAN REVIEW, EVALUATION, AND IMPLEMENT updates only)	ITATION (applicable	to plan	
D1. Was the plan revised to reflect changes in development?	a. 3:5 – 3:6		
(Requirement §201.6(d)(3))	(23-24);	V	
	5.3.4 (129)	X	
QC concurs	0.1 0.14		
D2. Was the plan revised to reflect progress in local mitigation efforts? (Requirement §201.6(d)(3))	a. 8:1 – 8:14 (190-201)	X	
QC concurs			
D3. Was the plan revised to reflect changes in priorities?	a. 4:92 – 4:95	V	
(Requirement §201.6(d)(3))	(116-119)	X	

1. REGULATION CHECKLIST	Location in Plan								
	(section and/or	Met	Not Met						
Regulation (44 CFR 201.6 Local Mitigation Plans)  ELEMENT D: REQUIRED REVISIONS	page number)	iviet	iviet						
ELEMENT E. PLAN ADOPTION									
E1. Does the Plan include documentation that the plan has been formally adopted by the governing body of the jurisdiction requesting approval? (Requirement §201.6(c)(5))	a. Appendix A		X						
E2. For multi-jurisdictional plans, has each jurisdiction requesting approval of the plan documented formal plan adoption?  (Requirement §201.6(c)(5))									
ELEMENT E: REQUIRED REVISIONS To be inserted upon plan approve Element E1 – City of Myrtle Beach has not provided documentation of requirement will be scored as met following the submittal of documentation of Required Revisions:  The plan must include documentation of plan adoption, usure or other authority.  If adopted after FEMA review, adoption must take place with FEMA's "Approvable Pending Adoption".	of adoption of the Update entation.  Fally a resolution by the go	overning	g body						
Additional information can be found in the "Local Mitigation Plan Red dated October 1, 2011, Pages 28-29. Also see the Local Mitigation Plan 8. Links to these documents can be found in Section 3 of this Plan Red	an Handbook dated Marc								
OPTIONAL: HIGH HAZARD POTENTIAL DAM RISKS									
HHPD1. Did Element A4 (planning process) describe the incorporation of existing plans, studies, reports, and technical information for high hazard potential dams?			х						
HHPD2. Did Element B3 (risk assessment) address HHPDs?			Х						
HHPD3. Did Element C3 (mitigation goals) include mitigation goals to reduce long-term vulnerabilities from high hazard potential dams that pose an unacceptable risk to the public?			х						
HHPD4. Did Element C4-C5 (mitigation actions) address HHPDs prioritize mitigation actions to reduce vulnerabilities from high hazard potential dams that pose an unacceptable risk to the public?			X						
REQUIRED REVISIONS									
ELEMENT F. ADDITIONAL STATE REQUIREMENTS (OPTIO ONLY; NOT TO BE COMPLETED BY FEMA)	NAL FOR STATE REVI	EWER:	S						
F1.									
F2									

# 1. REGULATION CHECKLIST Regulation (44 CFR 201.6 Local Mitigation Plans) ELEMENT F: REQUIRED REVISIONS Location in Plan (section and/or page number) Met Met

#### **SECTION 2:**

# **PLAN ASSESSMENT**

# A. Plan Strengths and Opportunities for Improvement

# **Element A: Planning Process**

#### Plan Strengths:

- The city continued to seek public involvement with a survey after no one showed up to the public meetings
- Plan development followed a thorough and thought out process

# Element B: Hazard Identification and Risk Assessment

#### Plan Strengths:

- The plan has great hazard descriptions
- The plan does a good job discussing previous occurrences and impacts in the tables for each hazard Opportunities for Improvement:
  - Some of the maps are from several years ago, such as the drought map from 2011 more up to date maps would be helpful to the community

# **Element C: Mitigation Strategy**

#### Plan Strengths:

- Plan is a good example of planning integration as it is also the city's flood management plan.
- Section 6 does a good job describing the city's capabilities

#### Element D: Plan Review

#### Plan Strengths:

• All Items from the previous plan were account for in the current plan

#### Opportunities for Improvement:

 Most of the action items from the previous plan were deferred. Hopefully in the next plan update many more will be complete.

# B. Resources for Implementing Your Approved Plan

# **Local Mitigation Planning Handbook**

This Handbook provides guidance to local governments on developing or updating hazard mitigation plans to meet the requirements under the Code of Federal Regulations (CFR) Title 44 – Emergency Management and Assistance §201.6.

Use the Local Plan Guide and Handbook in tandem to understand technical requirements http://www.fema.gov/library/viewRecord.do?fromSearch=fromsearch&id=7209

# Integrating Mitigation Strategies with Local Planning

This resource provides practical guidance on how to incorporate risk reduction strategies into existing local plans, policies, codes, and programs that guide community development or redevelopment patterns.

http://www.fema.gov/library/viewRecord.do?id=7130

# Mitigation Ideas

Communities can use this resource to identify and evaluate a range of potential mitigation actions for reducing risk to natural hazards and disasters.

http://www.fema.gov/media-library/assets/documents/30627

# **Mitigation Assistance Programs**

FEMA administers three programs that provide funding for eligible mitigation projects that reduces disaster losses and protect life and property from future disaster damages. The three programs are the Hazard Mitigation Grant Program (HMGP), the Flood Mitigation Assistance (FMA) Program, and the Pre-Disaster Mitigation (PDM) Program. http://www.fema.gov/hazard-mitigation-assistance

# Rehabilitation of High Hazard Potential Dam Grant Program

The President signed the "Water Infrastructure Improvements for the Nation Act" or the "WIIN Act," on December 16, 2016, which adds a new grant program under FEMA's National Dam Safety Program (33 U.S.C. 467f). Section 5006 of the Act, Rehabilitation of High Hazard Potential Dams, provides technical, planning, design, and construction assistance in the form of grants for rehabilitation of eligible high hazard potential dams. https://www.fema.gov/rehabilitation-high-hazard-potential-dam-grant-program

# **SECTION 3:**

# **MULTI-JURISDICTION SUMMARY SHEET (OPTIONAL)**

**INSTRUCTIONS**: For multi-jurisdictional plans, a Multi-jurisdiction Summary Spreadsheet may be completed by listing each participating jurisdiction, which required Elements for each jurisdiction were 'Met' or 'Not Met,' and when the adoption resolutions were received. This Summary Sheet does not imply that a mini-plan be developed for each jurisdiction; it should be used as an optional worksheet to ensure that each jurisdiction participating in the Plan has been documented and has met the requirements for those Elements (A through E).

					MULTI-	-JURISDICTI	ON SUMM	ARY SHEET					
		Jurisdiction					Requirements Met (Y/N)						
#	Jurisdiction Name	Type (city/borough/ township/ village, etc.)	Plan POC	Mailing Address	Email	Phone	A. Planning Process	B. Hazard Identification & Risk Assessment	C. Mitigation Strategy	D. Plan Review, Evaluation & Implementation	E. Plan Adoption	F. State Require- ments	
1	City of Myrtle Beach						Υ	Y	Y	Y	N	NA	
2													
3													
4													
5													
6													
7													
8													
			-										

					MULTI	-JURISDICTI	ON SUMMA	ARY SHEET				
		Jurisdiction					Requirements Met (Y/N)					
#	Jurisdiction Name	Type (city/borough/ township/ village, etc.)	Plan POC	Mailing Address	Email	Phone	A. Planning Process	B. Hazard Identification & Risk Assessment	C. Mitigation Strategy	D. Plan Review, Evaluation & Implementation	E. Plan Adoption	F. State Require- ments
		р										
											-	