

**Project F0-S75: Application - Multi-Jurisdiction Hazard Mitigation Plan**

Routing in Progress: State Review (Step 2 of 6)

**Application Summary**

This form outlines all project details, including Scope of Work, all costs, and location worksheets.

**Title:** Multi-Jurisdiction Hazard Mitigation Plan

**Eligible Amount:** \$99,577.00

**Funding** Federal - \$74,682.75

**Sources:** State - \$0.00

Local - \$24,894.25

**FEMA** Federal Number - < no value >

**Obligation Data:** Date of Obligation Letter - < no value >

CATEX Comments - < no value >

Project POP Date - < no value >

**Related Links:** [View Pre-Application](#), [View Project](#)

**Grant****4394 Hurricane Florence**

Hazard Mitigation Grant Program

Declared: September 16, 2018

**Applicant****Greenville County**

Name (Legal): County Of Greenville

FEMA Name: Greenville, County Of Greenville County (1 Region)

FIPS #: 045-99045-00

FEIN #: 57-6000356

Vendor #:

Type: County Government

Physical/Mailing: 301 University Ridge Suite 3800

Greenville, SC, 29601

**Project****F # S #75**

Multi-Jurisdiction Hazard Mitigation Plan

PLN Planning

Project POP Deadline:

Eligible: \$0.00

Federal: \$0.00 (75%)

Un-Expended Eligible: \$99,577.00

**Workflow Summary**

**Current Step:** 2) State Review

Description: Project Applications to be reviewed by the State.

**Recipients:** Mary McHenry, Candice Carroll, Howard van Dijk, Karen Brack, Joel Bailey, Charlotte Foster

**Last Advanced:** May 30, 2019 at 4:42 PM by Brian Bishop

**Last Modified:** May 30, 2019 at 4:54 PM by Mary McHenry

**Submission:** May 30, 2019 at 4:42 PM by Brian Bishop

## Introduction

### Summary Information

Grant: 4394 Hurricane Florence

Project Type: Planning

Title: Multi-Jurisdiction Hazard Mitigation Plan

Used to help identify the project. Ex: "St Thomas Bridge Reinforcement".

Primary Contact: Paula Gucker - Assistant Co. Administrator Public Works

Edit

Email Address: [pgucker@greenvillecounty.org](mailto:pgucker@greenvillecounty.org)

Phone: 864-467-7007

Alternate Contact: Hal Clarkson - Project Director

Edit

Email Address: [hal.clarkson@woolpert.com](mailto:hal.clarkson@woolpert.com)

Phone: 803-214-5881

Authorized Contact: Brian Bishop - Floodplain Administrator

Edit

Email Address: [jbishop@greenvillecounty.org](mailto:jbishop@greenvillecounty.org)

Phone: 864-467-7523

### Planning Requirement

For all disasters declared after November 1, 2004, a community must have a FEMA approved Local Hazard Mitigation Plan in order to be eligible for HMGP.

Date of Plan Approval: Jun 2, 2015

Is the community a member of good standing with the National Flood Insurance Program (NFIP)? Yes

Date Established: Dec 2, 1980

NFIP Number: 450089

Property Located in SFHA? No

Is the community a member  
of the Community Rating  
System (CRS)?            Yes

Date Established:            Oct 1, 1993

### Project Information

Current planning regulations require specific information be included in local mitigation plans. The following questions address how your community intends to accomplish some of those aspects. For areas where specific strategies have not been determined, please estimate.

List all municipalities (county/city) the proposed plan will address. If not multi-jurisdictional, explain why that decision was made.

The current Greenville County plan dated January 2015 included the following four (4) cities. Those cities include: City of Greenville, City of Simpsonville, City of Fountain Inn and the City of Mauldin. We anticipate the City of Greer to participate in the near future.

Attach letters of agreement for each jurisdiction involved in the plan (multi-jurisdictional planning only).

List the hazards to be addressed (i.e., flooding, earthquake, ice, etc.).

climate change  
 winter storms  
 Floods  
 Tornadoes/High Winds  
 Severe Storm/Thunderstorms  
 Earthquakes  
 Wildfires  
 Drought/Heat wave  
 Dam Failure

The regulations do not specify inclusion of human-caused hazards (i.e., radiological, hazardous materials, terrorism, etc.), but do encourage the integration of such. If human-caused hazards will be addressed, please list the types you will be studying.

N/A

Describe the area and population affected by this project, including location. For multi-jurisdictional planning, specify each jurisdiction's information.

Greenville County has a total area of 795 square miles. The population (2018) is 514,213.

Specific Multi-jurisdictional within Greenville County:

- 1) City of Fountain Inn - total area = 7.9 square miles; population (2010) = 7,799
- 2) City of Greenville - total area = 28.8 square miles; population (2017) = 68,219
- 3) City of Mauldin - total area = 10.0 square miles; population (2015) = 25,135
- 4) City of Simpsonville - total area = 8.83 square miles; population (2010) = 18,238

Describe how the community will ensure the planning process will include public involvement and/or comment.

The planning process must include an opportunity for the public to comment on the plan during its development and before its approval. To meet this requirement, our consultant recommends that several members of the Disaster Mitigation Committee (DMC) be representative stakeholders from the community (as opposed to County staff). An additional requirement is that each meeting of the DMC be publicly posted and open to the public.

Two meetings outside of DMC meetings will be held in "affected areas". Our consultant will work with the County to determine appropriate watersheds for these meetings. These meetings must be held within two months of beginning the planning process. Our consultant will provide presentation material describing the planning process and will solicit relevant information from those in attendance. It is anticipated that each meeting will be no longer than two hours.

One public meeting will be held in the latter stages of the planning process to obtain input on the recommended plan. Our consultant will provide presentation material regarding the plan and will facilitate the meeting. It is anticipated that this meeting will be held at County Square and will last approximately 2 hours.

Our consultant will meet with County public outreach staff to develop a plan for additional public information activities related to development of the Hazard Mitigation Plan (HMP). Based on results of the meeting, our consultant will draft a public information plan including activities and schedule. This plan will be submitted to the County for review and revision.



Describe how the community will ensure the planning process will include neighboring communities, local and regional agencies involved in hazard mitigation activities, and agencies that have the authority to regulate development, as well as business, academia and other private and non-profit interests involvement.

The planning process includes officials from both Greenville County but also those from the city of Greenville, Simpsonville, Mauldin and Fountain Inn. Each of the Cities will incorporate into the HMP specific hazards and mitigation efforts to their specific communities. As described in the next section, our Disaster Mitigation Committee (DMC) incorporates a diversified group of individuals that will bring years of experience in planning, hazard mitigation, emergency response to disasters, climatology, along with known and predicted hazard identification.

Describe how the community will ensure the planning process will include a hazard mitigation planning team that incorporates a broad range of expertise/knowledge of the area(s) involved which will serve an integral part in the plan development phases of risk assessment, vulnerability analysis, mitigation strategy and plan maintenance.

As part of Greenville County's current Multi-Jurisdictional Hazard Mitigation Plan our Disaster Mitigation Committee (DMC) meets at a minimum of once a year. Our current members consist of city officials from Mauldin, Simpsonville, Fountain Inn and City of Greenville, Greenville County staff and administration, fire chiefs, professors from Greenville Tech. College and Furman University, meteorologists from NWS, engineering firms, SC Appalachian Council of Governments, Home builders association of Greenville, USDA, Greenville County soil and water, Greenville County Emergency Management Division and others. Our plan is to continue to expand our DMC committee to the greatest possible extent for this updated plan.

Describe how the community will ensure the planning process will include review and incorporation, if appropriate, of existing plans, studies, reports, and technical information.

The updated HMP will incorporate the current plans: Comprehensive Plan, Capital Improvement Plan, Emergency Operations Plan, Stormwater Management plan, Land Development plan, County zoning and floodplain management ordinances.

Describe the Scope of Work (SoW). (Upload supporting documentation via the "Add Document" button in the footer section).

See Scope of Work under uploaded documents. File name "GC HMP 2020"

Describe previous hazard mitigation planning and implementation activities in the community.

Greenville County has had two previous HMPs (2010 and 2015). The 2020 plan will continue to meet the criteria described in the Disaster Mitigation Act of 2000 and follow the 10 Step Process set forth in the NFIP/CRS Coordinator's Manual FIA-15/2017. As part of the planning process, Mitigation Initiatives will be established along with estimated time lines for implementation. These initiatives are reviewed at a minimum annually with the Disaster Mitigation Committee (DMC). Status and updates are incorporated into the current mitigation plan. The implementation status is then provided to the county council annually and made available to the public.

Enter any additional comments related to the proposed planning effort, if desired.

**Costs**

**Cost Line Items**

Please specify any project costs that aren't worksheet or site-specific (since those costs will be specified in the individual worksheets).

Type	Description	Qty	Unit	Price	Pre-Award	Total
Labor	Consultant Labor and Management	1	1	\$ 99,577	Yes	\$99,577.00
<b>Application Total</b>						<b>\$99,577.00</b>
<b>Grand Total</b>						<b>\$99,577.00</b>

**Strategic Funds Management Initiative**

Does this project qualify for SFM?

**Funding Sources**

Method:  By Percent  By Amount

Funding Source / Other Agency

Estimated FEMA Share:  % \$74,682.75

Estimated State Share:  % \$0.00

Non-Federal Share - Estimated Local Share (Include In-Kind Value):  % \$24,894.25

Funding Source

Total Allocated:  % \$99,577.00

**Benefit Cost Ratio**

Is Used:

Justification of Cost Line break-down:

Provide a detailed justification on each item where funding is requested, explaining its purpose for plan development or update

Additional Comments:

Enter any additional comments related to the proposed project's funding if desired.



## Timeline

### Project Milestones

Total # of weeks for entire project:

### Timeline

Insert the proposed work schedule in phases, i.e., data gathering, risk assessment, etc. This timeline will be used as a measurement tool for progress in the plan development and will be reported on quarterly. It will be the basis used to justify delays or extensions, if necessary, and should be estimated carefully.

Task Description	Start Day	End Day
Organize to Prepare the Plan	Select One	Select One
Involve the public	Select One	Select One
Coordinate	Select One	Select One
Assess the Hazard	Select One	Select One
Assess the Problem	Select One	Select One
Set Goals	Select One	Select One
Review Possible Activities	Select One	Select One
Draft an Action Plan	Select One	Select One
Adopt the Plan	Select One	Select One

How were the estimated start/completion dates determined?

### Maintenance

The following questions are to give assurance on the plan's maintenance. Please answer each question and give a brief explanation.

Will the plan be maintained on a regular basis? If so, who will provide the maintenance and what is the annual cost to maintain?

**Greenville County Hazard Mitigation Plan DRAFT Schedule 06/28/19**

Task Name	Duration	Start	Finish	Predecessors
<b>Step 1. Plan Preparation</b>	<b>20 days</b>	<b>Mon 7/1/19</b>	<b>Mon 7/29/19</b>	
Review DMC make-up	5 days	Mon 7/1/19	Mon 7/8/19	
Draft community MOUs	5 days	Mon 7/1/19	Mon 7/8/19	
Develop project schedule	5 days	Mon 7/1/19	Mon 7/8/19	
Gather and review data	20 days	Mon 7/1/19	Mon 7/29/19	
<b>Step 2. Involve the Public</b>	<b>182 days</b>	<b>Tue 8/13/19</b>	<b>Thu 4/30/20</b>	
Public Meeting #1	1 day	Tue 8/20/19	Tue 8/20/19	1FS+15 days
Public Meeting #2	1 day	Wed 8/28/19	Wed 8/28/19	7FS+5 days
Public Meeting #3	1 day	Mon 12/16/19	Mon 12/16/19	29,18,23,24,25
DMC Meeting #1	1 day	Tue 8/13/19	Tue 8/13/19	1FS+10 days
DMC Activities Meeting #1	1 day	Thu 9/12/19	Thu 9/12/19	10FS+20 days,19
DMC Activities Meeting #2	1 day	Wed 10/16/19	Wed 10/16/19	11FS+20 days,22
DMC Activities Meeting #3	1 day	Thu 11/14/19	Thu 11/14/19	12FS+20 days
County staff outreach meeting	1 day	Fri 1/3/20	Fri 1/3/20	9FS+10 days
Plan adoption meeting	1 day	Thu 4/30/20	Thu 4/30/20	32FS+60 days
<b>Step 3. Coordinate</b>	<b>15 days</b>	<b>Tue 7/9/19</b>	<b>Mon 7/29/19</b>	
Conduct agency phone calls	15 days	Tue 7/9/19	Mon 7/29/19	2
<b>Step 4. Assess the Hazard</b>	<b>61 days</b>	<b>Tue 7/30/19</b>	<b>Wed 10/23/19</b>	
Prepare hazard mapping	20 days	Tue 7/30/19	Mon 8/26/19	1
Prepare draft hazard assessment	15 days	Tue 8/27/19	Tue 9/17/19	19
Prepare final hazard assessment	5 days	Thu 10/17/19	Wed 10/23/19	20,8,12
<b>Step 5. Assess the Problem</b>	<b>55 days</b>	<b>Tue 7/30/19</b>	<b>Tue 10/15/19</b>	

identify "at risk" infrastructure	10 days	Tue 7/30/19	Mon 8/12/19	1
Identify natural resource areas	10 days	Tue 7/30/19	Mon 8/12/19	1
Evaluate damage / cost data	20 days	Wed 9/18/19	Tue 10/15/19	23,20
Prepare Repetitive Loss Area Analysis	20 days	Wed 9/18/19	Tue 10/15/19	20,23
<b>Step 6. Set Goals</b>	<b>5 days</b>	<b>Wed 8/14/19</b>	<b>Tue 8/20/19</b>	
Review and revise goals	5 days	Wed 8/14/19	Tue 8/20/19	10
<b>Step 7. Review Possible Activities</b>	<b>35 days</b>	<b>Thu 10/24/19</b>	<b>Fri 12/13/19</b>	
Prepare draft list of mitigation activities	20 days	Thu 10/24/19	Wed 11/20/19	18,23,24,12
Prepare final list of mitigation activities	15 days	Thu 11/21/19	Fri 12/13/19	30,13
<b>Step 8. Draft an Action Plan</b>	<b>35 days</b>	<b>Mon 12/16/19</b>	<b>Wed 2/5/20</b>	
Prepare initial draft Action Plan	20 days	Mon 12/16/19	Wed 1/15/20	29
County review of draft Action Plan	5 days	Thu 1/16/20	Wed 1/22/20	33
Prepare final draft Action Plan	10 days	Thu 1/23/20	Wed 2/5/20	34
<b>Step 9. Adopt the Plan</b>	<b>68 days</b>	<b>Thu 1/16/20</b>	<b>Mon 4/20/20</b>	
Prepare crosswalk review	5 days	Thu 1/16/20	Wed 1/22/20	33
Submit Action Plan to ISO / SCEMD	1 day	Mon 2/10/20	Mon 2/10/20	35FS+2 days
ISO / SCEMD Review	40 days	Tue 2/11/20	Mon 4/6/20	38
Prepare draft Council Resolution	10 days	Tue 4/7/20	Mon 4/20/20	39
Prepare final Action Plan	10 days	Tue 4/7/20	Mon 4/20/20	39
<b>Step 10. Implement, Evaluate, &amp; Revise</b>	<b>20 days</b>	<b>Tue 3/23/21</b>	<b>Mon 4/19/21</b>	<b>40FS+240 days</b>

## **Agreements**

### **A. Maintenance Agreement**

All applicants whose proposed project involves the retrofit or modification of existing public property or whose proposed project would result in the public ownership or management of property, structures, or facilities, must first sign and attach the following agreement prior to submitting their application to FEMA.

NOTE: those applicants whose project only involves the retrofitting, elevation, or other modification to private property where the ownership will remain private after project completion DO NOT have to complete this form.)

[Download Agreement Template](#)

### **B. Applicant Certifications**

Each applicant whose proposed project involves elevation of one or more residential structures or relocation or acquisition and demolition of such structures must sign and attach the following certifications.

[Download Agreement Template](#)