

Hazard Mitigation Assistance Program and Policy Guide

Hazard Mitigation Grant Program, Hazard Mitigation Grant Program Post Fire,
Building Resilient Infrastructure and Communities, and Flood Mitigation
Assistance

Effective January 20, 2025

Version 2.1

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FEMA

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Version History

This section lists changes made to the HMA Guide since its publication on March 23, 2023. These updates include corrections, minor administrative changes, and the date of the annual update. FEMA will announce substantive policy updates separately on the [Hazard Mitigation Assistance Program and Policy Guide](#) webpage. Major versions will have detailed changes described in [Part 15.G](#).

Version	Publication Date	Description of Changes
1.0	03/23/2023	Initial publication
1.1	09/23/2023	<ul style="list-style-type: none"> ▪ In Part 4.C.2, FEMA corrected the mitigation plan requirement for tribal governments that meet the definition of a local government to indicate that a mitigation plan in accordance with 44 CFR § 201.6 is required as a condition of receiving assistance. The text previously indicated that a mitigation plan in accordance with 44 CFR § 201.7 is required. This update is also reflected in Part 2.F.3. This correction is effective as of March 23, 2023. ▪ FEMA included updated links to the following forms: <i>FEMA Model Deed</i>, <i>Statement of Assurances for Property Acquisition Projects</i>, <i>Acknowledgement of Conditions for Properties Using FEMA Hazard Mitigation Assistance</i>, <i>Elevation Certificate</i> and <i>Dry Floodproofing Certificate for Non-Residential Structures</i>.
2.0	07/30/2024	Refer to Part 15.G of version 2.0 for a detailed description of changes.
2.1	01/20/2025	Update to comply with administration priorities. Refer to Part 15.G of version 2.1 for a detailed description of changes.

Titles of Opportunities

- Hazard Mitigation Grant Program (HMGP)
- Hazard Mitigation Grant Program Post Fire (HMGP Post Fire)
- Building Resilient Infrastructure and Communities (BRIC)
- Flood Mitigation Assistance (FMA)

Assistance Listing Numbers

- 97.039 - HMGP
- 97.039 - HMGP Post Fire
- 97.047 - BRIC
- 97.029 - FMA

Federal Agency Name

- Department of Homeland Security
- Federal Emergency Management Agency

How To Use This Guide

The purpose of the HMA Guide is to outline the policy and procedural requirements of HMA's programs over the lifecycle of an activity for the Hazard Mitigation Grant Program (HMGP), HMGP Post Fire, Building Resilient Infrastructure and Communities (BRIC), and Flood Mitigation Assistance (FMA).

Rather than reading the document in its entirety, readers may find it helpful to navigate to specific content by using key word searches or reviewing the table of contents. Both the table of contents and the main text contain clickable links that will take readers to other relevant sections of the document.

The following is a summary of the different parts of the HMA Guide:

- [Part 1](#), [Part 2](#), [Part 3](#), [Part 4](#) and [Part 5](#) contain general information about HMA, overall eligibility criteria, and statutory, regulatory, and policy requirements (including cost effectiveness).
- [Part 6](#), [Part 7](#), [Part 8](#) and [Part 9](#) cover administrative and reporting requirements throughout the different phases of the grant lifecycle from pre-award through closeout.
- [Part 10](#) contains information unique to each of the HMA programs (e.g., the lock-in process for HMGP, definitions of repetitive loss and severe repetitive loss under FMA).
- [Part 11](#), [Part 12](#) and [Part 13](#) provide details on a selection of eligible project types. Each section outlines information unique to that project type, including eligible activities, subapplication requirements, design considerations, implementation information, and closeout requirements. [Part 11](#) covers Capability and Capacity Building activities (e.g., hazard mitigation planning, codes and standards). [Part 12](#) covers hazard mitigation projects (e.g., acquisition, mitigation reconstruction). [Part 13](#) covers management costs.
- [Part 14](#) contains policies and guidance for Program Administration by States under HMGP and HMGP Post Fire.
- [Part 15](#) contains appendices, including a glossary and a detailed list of changes made in this version of the HMA Guide.

Throughout the document, readers can find green boxes with lists of resources relevant to the content of each section. FEMA also provides footnotes with statutory and regulatory citations for reference purposes to help users better understand FEMA's requirements.

Please send any usability feedback to fema-hma-guide@fema.dhs.gov.

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Part 1. Introduction

FEMA issues policy to articulate the Agency’s intent and direction in applying statutory and regulatory authority to achieve desired outcomes. The purpose of the Hazard Mitigation Assistance Program and Policy Guide (HMA Guide) is to define FEMA’s Hazard Mitigation Assistance (HMA) programs and their policy requirements and provide the foundation and framework for the HMA Programs. The HMA Guide is meant to work in conjunction with Notices of Funding Opportunities, program support materials, as well as training materials to enable state, local, tribal and territorial governments to develop and submit complete effective subapplications. The HMA Guide outlines the policy for the following HMA programs: Hazard Mitigation Grant Program (HMGP), Hazard Mitigation Grant Program Post Fire (HMGP Post Fire), Building Resilient Infrastructure and Communities (BRIC) and Flood Mitigation Assistance (FMA).

HMA programs are mandated to provide assistance to state, local, tribal and territorial governments through the following statutes:

- HMGP and HMGP Post Fire: Section 404 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act (Stafford Act), Public Law 100-707 (Nov. 23, 1988), as amended, 42 U.S.C. § 5170c.
- BRIC: Section 203 of the Stafford Act, 42 U.S.C. § 5133.
- FMA: Sections 1366 and 1367 of the National Flood Insurance Act of 1968, Public Law 90-448 (Aug. 1, 1968), as amended, 42 U.S.C. § 4104c, 42 U.S.C. § 4104d.

FEMA's Hazard Mitigation Assistance programs provide grants to state, local, tribal and territorial governments to reduce and mitigate future natural disaster losses. States, locals, tribes and territories use this funding to complete diverse resilience activities and projects. Potential eligible activities and projects are highlighted in Parts 11 and 12 of the HMA Guide. FEMA continually expands the specified list of eligible activities and project type requirements but notes that this list is not comprehensive. FEMA encourages new project types, multi-hazard projects, and innovative solutions to address increasingly complex natural hazards; these projects will be evaluated against the overall program criteria outlined in the HMA Guide.

FEMA is always looking for ways to enhance the suite of mitigation programs to better serve stakeholders. While the HMA Guide covers HMGP, HMGP Post Fire, BRIC and FMA, FEMA encourages stakeholders to explore other programs such as [Pre-Disaster Mitigation Congressionally-Directed Spending](#), the [Safeguarding Tomorrow through Ongoing Risk Mitigation Revolving Loan Fund \(Safeguarding Tomorrow RLF\) program](#), and the [National Dam Safety Program](#) to find additional sources of assistance to meet their mitigation needs.

In addition to HMA grant programs, FEMA administers the Public Assistance program, which is often used alongside HMA grants to provide post-disaster recovery and mitigation. The Public Assistance

program should be explored in conjunction with HMA assistance. The Public Assistance program, much like the HMA programs, provides federal grant assistance for hazard mitigation to state, local, tribal and territorial governments (as well as certain types of private nonprofit organizations) recovering from a major disaster but with noncompetitive grants. More specifically, the Public Assistance program provides supplemental federal grant assistance for debris removal, emergency protective measures, and the restoration of disaster-damaged, publicly owned facilities and specific facilities of certain private nonprofit (PNP) organizations. The Public Assistance program also encourages protection of these damaged facilities from future incidents by providing assistance for hazard mitigation measures. Potential subapplicants may be able to protect disaster-damaged facilities from future incidents using Public Assistance funding alongside, or instead of HMA grants. To learn more about what may be eligible under Public Assistance, visit the “[Process of Public Assistance Grants](#)” webpage.

A. HMA Guide Scope and Applicability

The purpose of the HMA Guide is to outline the policy and procedural requirements of HMA’s programs over the lifecycle of an activity. The HMA Guide serves as the overarching policy for HMA programs and is used to achieve consistent implementation across the nation.

The effective date of Version 2.1 of the HMA Guide is January 20, 2025. Version 2.1 of the HMA Guide applies to HMGP, HMGP Post Fire, BRIC and FMA. Unless stated otherwise in the HMA Guide or an appropriate authoritative source, Version 2.1 of the HMA Guide supersedes Version 2.0 of the HMA Guide and all policies and guidance issued between July 30, 2024, and January 20, 2025.

Major disaster declarations made and Notices of Funding Opportunity (NOFOs) published prior to the effective date continue to be governed by the guide (including any policy directives) in effect at the time of the major disaster declaration or NOFO. This includes applications/subapplications submitted and awards/subawards made under those prior disaster declarations and NOFOs.

For HMGP, the HMA Guide applies to major disaster declarations on or after the effective date of January 20, 2025, unless indicated otherwise.

For HMGP Post Fire, the HMA Guide applies to Fire Management Assistance Grant declarations issued on or after October 1, 2024, through the entirety of the open application period.¹

For FMA, the HMA Guide applies to applications/subapplications submitted and awards/subawards made under FMA NOFOs issued on or after January 20, 2025.

For BRIC, the HMA Guide applies to applications/subapplications submitted and awards/subawards made under BRIC NOFOs issued on or after January 20, 2025. BRIC applications and subapplications submitted before the effective date of the HMA Guide are governed by the NOFO

¹ States, federally recognized tribes and territories affected by fires resulting in an [FMAG](#) declaration on or after Oct. 5, 2018, but before October 1, 2022, are governed by the HMGP Post Fire framework outlined in [FEMA Policy #207-088-2](#).

and BRIC guidance materials applicable for the year in which the applications are made, rather than prior versions of the HMA Guidance and the Addendum that were published before the implementation of BRIC.

FEMA may use the Pre-Disaster Mitigation (PDM) program when administering grant funding as directed by Congress. For PDM, the HMA Guide generally applies to NOFOs published on or after January 20, 2025. Please refer to the relevant PDM NOFO for additional guidance.

If any requirements in the HMA Guide conflict with the applicable NOFO, the requirements in the NOFO take precedence. The HMA Guide is subject to legal and regulatory changes enacted after publication. FEMA periodically assesses its program and policy guidance and may issue new policy or guidance. The information provided in the HMA Guide is applicable unless otherwise stated in updated policy or other guidance materials.

[Table 1](#) summarizes the applicability of the various versions of the HMA Guidance/Guide to the HMA programs:

Table 1: HMA Guidance/Guide Applicability Dates by HMA Program

	Hazard Mitigation Grant Program (HMGP)	HMGP Post Fire	Building Resilient Infrastructure and Communities (BRIC)	Flood Mitigation Assistance (FMA)
HMA Guide v2.1	Major disaster declarations made on or after January 20, 2025	FMAG declarations issued on or after October 1, 2024, through the entirety of the open application period	NOFO published on or after January 20, 2025	NOFO published on or after January 20, 2025
HMA Guide v2.0	Major disaster declarations made on or after July 30, 2024	FMAG declarations issued on or after October 1, 2023, through the entirety of the open application period	NOFO published on or after July 30, 2024	NOFO published on or after July 30, 2024
HMA Guide v1.1 (replaced v1.0)	Major disaster declarations made on or after March 23, 2023	FMAG declarations issued on or after October 1, 2022, through the entirety of the open application period	NOFO published on or after March 23, 2023	NOFO published on or after March 23, 2023

	Hazard Mitigation Grant Program (HMGP)	HMGP Post Fire	Building Resilient Infrastructure and Communities (BRIC)	Flood Mitigation Assistance (FMA)
2015 HMA Guidance and Addendum (or prior versions)	Major disaster declarations made before March 23, 2023	FMAG declarations made on or after Oct. 5, 2018, and before October 1, 2022 ²	Not applicable (follow the information posted on the “ Building Resilient Infrastructure and Communities ” webpage)	NOFO published before March 23, 2023

B. Applicability of Other Publications

Unless otherwise noted, when the HMA Guide references requirements detailed in other publications (including FEMA, other government and professional publications), those requirements are applicable as follows:

- For HMGP and HMGP Post Fire, applicants must follow the version of the publication in effect on the date of the disaster declaration.
- For BRIC and FMA, applicants must follow the requirements in the applicable NOFO. Unless otherwise noted in the NOFO, applicants must follow the version of the publication in effect on the start date of the application period.

C. Document Management and Maintenance

FEMA conducts a comprehensive review of this publication no less than every two years. If the document is deemed significant, FEMA will publish the document in the Federal Register for public comment. FEMA stakeholders may request changes and send comments to fema-hma-guide@fema.dhs.gov on a rolling basis. The FEMA HMA Guide team closely monitors communications sent to this email address.

D. Changes to the HMA Guide

An overview of changes made to the HMA Guide since its previous annual publication can be found in [Part 15.G](#).

² States, federally recognized tribes and territories affected by fires resulting in a [FMAG](#) declaration on or after Oct. 5, 2018, but before October 1, 2022, are governed by the HMGP Post Fire framework outlined in [FEMA Policy #207-088-2](#).

Part 2. Overview of Hazard Mitigation Assistance Programs

FEMA Hazard Mitigation Assistance (HMA) programs support hazard mitigation activities that reduce or eliminate potential losses to state, local, tribal and territorial governments, fostering resilience against the effects of disasters.

Hazard mitigation is any sustained action taken to reduce or eliminate long-term risk to people and property from natural hazard events and their effects. The long-term impact of hazard mitigation actions can be distinguished from those more closely associated with immediate preparedness, response and recovery activities because hazard mitigation is the only emergency management phase specifically dedicated to breaking the cycle of damage, reconstruction and repeated damage.

FEMA administers HMA programs that provide funding for hazard mitigation activities including mitigation projects and capability- and capacity-building. The following programs are covered in the HMA Guide:³

1. Hazard Mitigation Grant Program (HMGP)
2. Hazard Mitigation Grant Program Post Fire (HMGP Post Fire)
3. Building Resilient Infrastructure and Communities (BRIC)
4. Flood Mitigation Assistance (FMA)

[Part 2](#) provides an overview of HMGP, HMGP Post Fire, BRIC and FMA including the statutory and regulatory authorities that govern them. Unique aspects of each of these programs are detailed in [Part 10](#). [Part 2](#) also provides an outline of authorities governing grants management, an integral part of the administration of HMA programs. It also briefly outlines the roles and responsibilities of state, local, tribal and territorial governments and who can benefit from the HMA programs.

A. Hazard Mitigation Grant Program

HMGP ensures that state, local, tribal and territorial governments have the financial opportunity to plan for and implement hazard mitigation measures that reduce the risk of loss of life and property from future natural disasters during the reconstruction process following a disaster. HMGP is authorized by Section 404 of the [Robert T. Stafford Disaster Relief and Emergency Assistance Act](#)

³ The HMA Program and Policy Guide applies to the Pre-Disaster Mitigation (PDM) program as described in the relevant NOFO. FEMA intends to announce these funding opportunities through Notices of Funding Opportunity, which will specify the applicable program requirements.

(Stafford Act)⁴ and implemented in regulations at [44 Code of Federal Regulations \(CFR\) §§ 206.430-440](#).

HMGP funding is available when authorized through a major disaster declaration. A governor,⁵ tribal chief executive, or equivalent, may request that HMGP funding be available to the state or territory that was affected by the declared disaster. Federally recognized tribal governments, through their tribal chief executive,⁶ may also submit a request for a disaster declaration within their impacted areas and request that HMGP funding be made available to them under that declaration. Upon the declaration of a major disaster or an emergency, the governor or tribal chief executive and the FEMA regional administrator or designee shall execute a FEMA-State Agreement or FEMA-Tribal Agreement. The Agreements state the understandings, commitments and conditions for assistance under which FEMA disaster assistance shall be provided.⁷ For more information about the declaration process, refer to [44 CFR §§ 206.31 – 49b](#) or visit the FEMA “[How a Disaster Gets Declared](#)” webpage.

The amount of HMGP funding available to the applicant is based on the estimated total federal assistance, subject to the sliding scale formula that FEMA provides for disaster recovery for each disaster declaration.⁸ The formula provides for:

- Up to 15% of the first \$2 billion of estimated aggregate amounts of disaster assistance.
- Up to 10% for amounts between \$2 billion and \$10 billion.
- Up to 7.5% for amounts between \$10 billion and \$35.333 billion.

For states and federally recognized tribal governments with enhanced mitigation plans, the eligible assistance is up to 20% for estimated aggregate amounts of disaster assistance, not to exceed \$35.333 billion. The sliding scale does not apply to recipients with enhanced mitigation plans. For more information on how to advance mitigation planning to become enhanced, refer to the FEMA [State Mitigation Planning Policy Guide](#) (Version 2.0, May 19, 2025).

The amount of HMGP funding available under the disaster declaration is apportioned among the applicants if there is more than one applicant. For example, if a state and a federally recognized tribe are applicants under the same disaster declaration, then the available HMGP funding is apportioned among the state and the federally recognized tribe. The apportionment is based on the disaster assistance provided within tribal land.

The award period of performance for HMGP begins with the opening of the application period and ends no later than 48 months from the close of the application period.

⁴ Public Law 100-707 (Nov. 23, 1988); amending the Disaster Relief Act of 1974, Public Law 93-288 (May 22, 1974)

⁵ [42 U.S.C. § 5122\(5\)](#)

⁶ [42 U.S.C. § 5122\(12\)](#)

⁷ [44 CFR § 206.44](#)

⁸ [44 CFR § 206.432\(b\)](#)

All applicants and subapplicants must have a FEMA-approved mitigation plan that has been adopted by the jurisdiction in accordance with [44 CFR Part 201](#) and applicable mitigation planning policies to receive HMGP funding. See [Part 4.C](#) for detailed information regarding the mitigation plan requirement.

In addition, recipients are required to prepare an HMGP Administrative Plan, which must be approved by FEMA. The HMGP Administrative Plan is a procedural guide that details how the recipient will administer HMGP awards.

For more HMGP guidance, refer to [Part 10](#).

B. Hazard Mitigation Grant Program Post Fire

[HMGP Post Fire](#) assistance is available to help communities implement hazard mitigation measures after wildfire disasters in any area affected by a fire for which assistance is provided under a Fire Management Assistance Grant (FMAG) declaration.

Section 1204 of the [Disaster Recovery Reform Act of 2018](#)⁹ amended Section 404 of the [Stafford Act](#) to allow FEMA to provide HMGP Post Fire assistance for hazard mitigation measures that substantially reduce the risk of future damage, hardship, loss or suffering in any area affected by a fire for which assistance was provided under Section 420 of the Stafford Act.¹⁰ Therefore, unlike HMGP, the availability of HMGP Post Fire assistance is not contingent on a major disaster declaration and is instead available in any area affected by a fire for which assistance was provided under an FMAG declaration.¹¹ Eligible activities may be outside of the declared area as long as the risk reduction benefits include the declared county or counties (e.g., watershed mitigation). If funding cannot be used in the declared areas, it may be made available statewide.

States and territories that have received an FMAG declaration and certain federally recognized tribes are eligible to apply for assistance under HMGP Post Fire.

Federally recognized tribes have multiple options for applying for HMGP Post Fire. Under an FMAG declaration made to a state or territory, federally recognized tribes with burned land from the FMAG declared event may request an HMGP Post Fire award as recipients. Tribes (including federally recognized tribes) may also apply through the state to FEMA as subapplicants. Subapplicants will

⁹ Division D of Public Law 115-254 (Oct. 5, 2018)

¹⁰ As amended, Section 420(d) of the [Stafford Act](#) states that “whether or not a major disaster is declared, the President may provide hazard mitigation assistance in accordance with Section 404 [of the Stafford Act] in any area affected by a fire for which assistance was provided under this section.” Section 1204 of the Disaster Recovery Reform Act also amended Section 420 of the Stafford Act to parallel the change in Section 404. Section 420 of the Stafford Act authorizes FEMA to provide assistance under its FMAG program for the mitigation, management and control of any fire that threatens such destruction as would constitute a major disaster.

¹¹ [44 CFR § 204.21](#)

follow the standard HMGP subapplicant procedures consistent with program guidance including updates in effect at the time of the FMAG declaration.

All applicants and subapplicants must have a FEMA-approved mitigation plan that has been adopted by the jurisdiction in accordance with [44 CFR Part 201](#) and applicable mitigation planning policies to receive HMGP Post Fire funding. See [Part 4.C](#) for detailed information regarding the mitigation plan requirement. In addition, recipients are required to prepare an HMGP Administrative Plan that must be approved by FEMA. The HMGP Administrative Plan is a procedural guide that details how the recipient will administer HMGP Post Fire awards.

After an FMAG declaration has been approved, the governor or tribal chief executive and the FEMA regional administrator or designee, shall execute a FEMA-State Agreement or FEMA-Tribal Agreement. The Agreements state the understandings, commitments, and conditions for assistance under which FEMA disaster assistance shall be provided.¹² For more information about the declaration process, refer to [44 CFR §§ 206.31 – 49b](#) or visit the FEMA “[How a Disaster Gets Declared](#)” webpage.

A signed FEMA-State Agreement or FEMA-Tribal Agreement is required to implement the HMGP Post Fire award following FMAG declarations. HMGP Post Fire is implemented pursuant to the FMAG state or tribal agreement.

For more HMGP Post Fire guidance, refer to [Part 10](#).

C. Building Resilient Infrastructure and Communities

[BRIC](#) supports state, local, tribal and territorial governments as they undertake hazard mitigation activities, reducing the risks they face from disasters and natural hazards. The BRIC program seeks to fund effective and innovative activities that will reduce risk, increase resilience, and serve as a catalyst to encourage the whole community to invest in and adopt hazard mitigation policies. BRIC is designed to promote a national culture of preparedness and public safety by encouraging investments to protect our communities and infrastructure and strengthen our national hazard mitigation capabilities to foster resilience.

BRIC was established as part of [Section 1234 of the Disaster Recovery Reform Act](#), which amended Section 203 of the Stafford Act.¹³ In its amended version, Section 203 of the Stafford Act authorizes FEMA to provide technical and financial assistance to state, local, tribal and territorial governments for hazard mitigation measures that are cost-effective and designed to reduce injuries, loss of life and damage and destruction of property. This includes damage to critical services and facilities.

¹² [44 CFR § 206.44](#)

¹³ Public Law 100-707 (Nov. 23, 1988); amending the Disaster Relief Act of 1974, Public Law 93-288 (May 22, 1974)

The BRIC program is designed around the following guiding principles:

- Support state and local governments, tribes and territories through capability- and capacity-building to enable them to identify hazard mitigation actions and implement projects that reduce risks posed by natural hazards.
- Encourage and enable innovation while allowing flexibility, consistency, and effectiveness.
- Promote partnerships and enable high-impact investments to reduce risk from natural hazards with a focus on critical services and facilities, public infrastructure, public safety, public health and communities.
- Provide a significant opportunity to reduce future losses and minimize impacts on the Disaster Relief Fund.
- Support the adoption and enforcement of building codes, standards, and policies that will protect the health, safety, and general welfare of the public, consider changes in natural hazard risk, and have long-lasting impacts on community risk reduction, including for critical services and facilities and for future disaster costs.

States and territories that have had a major disaster declaration under the Stafford Act in the seven years prior to the annual application period start date are eligible to apply for federal assistance under BRIC as applicants. Federally recognized tribal governments can apply directly to FEMA for federal assistance under BRIC as an applicant or through the state as a subapplicant. Federally recognized tribal governments that have had a major disaster declaration under the Stafford Act in the seven years prior to the annual application period start date—or are entirely or partially located in a state that had a major disaster declaration in the seven years prior to the annual application period start date—are eligible to apply as applicants. Local governments and tribes are eligible to apply to states and territories for federal assistance under BRIC as subapplicants.¹⁴ Individuals, businesses and nonprofit organizations are not eligible to apply for BRIC assistance; however, an eligible applicant or subapplicant may apply for funding on behalf of individuals, businesses and nonprofit organizations.

The BRIC program distributes assistance annually and requires a cost share.¹⁵ No later than 180 calendar days after each major disaster is declared under the Stafford Act and subject to assistance availability, FEMA calculates the estimated aggregate amount of grants to be made under Sections 403 (“Essential Assistance”), 406 (“Repair, Restoration, and Replacement of Damaged Facilities”), 407 (“Debris Removal”), 408 (“Federal Assistance to Individuals and Households”), 410 (“Unemployment Assistance”), 416 (“Crisis Counseling Assistance and Training”) and 428 (“Public Assistance Program Alternative Procedures”) of the Stafford Act for the major disaster. FEMA may set aside up to 6% of that amount from the Disaster Relief Fund for deposit into the National Public

¹⁴ [2 CFR § 200.1](#) and [42 U.S.C. 5122\(7\)](#).

¹⁵ Under Section 203(h) of the [Stafford Act](#), the federal assistance may contribute up to 75% of the total cost of mitigation activities approved by FEMA. In certain cases, the federal assistance may increase to up to 90%.

Infrastructure Pre-Disaster Mitigation Fund to fund BRIC. The amount set aside must not reduce the amounts otherwise made available under the referenced sections. FEMA assesses the amount of funding set aside for BRIC annually and determines what portion of that amount will be available during the following application period for the BRIC program. FEMA announces its determination in the annual Notice of Funding Opportunity (NOFO) for the BRIC program.

All applicants and subapplicants must have a FEMA-approved mitigation plan that has been adopted by the jurisdiction in accordance with [44 CFR Part 201](#) and applicable mitigation planning policies by the application deadline and at the time FEMA obligates funding for mitigation activities. See [Part 4.C](#) for detailed information regarding the mitigation plan requirement.

For more BRIC guidance, refer to [Part 10](#).

D. Flood Mitigation Assistance

[FMA](#) is a competitive program that provides funding to states, local communities, federally recognized tribes and territories. Funds can be used for projects that reduce or eliminate the risk of flood damage to structures insured by the National Flood Insurance Program (NFIP).

The [National Flood Insurance Reform Act of 1994](#) amended Section 1366 of the [National Flood Insurance Act of 1968](#) and directed FEMA to provide financial assistance in the form of grants for planning and carrying out activities designed to reduce the risk of flood damage to structures covered under contracts for flood insurance with the NFIP.¹⁶ The [Biggert-Waters Flood Insurance Reform Act of 2012](#) consolidated the Repetitive Flood Claims and Severe Repetitive Loss grant programs into FMA.¹⁷ FMA regulations can be found at [44 CFR Part 77](#).

FMA funding is available through the National Flood Insurance Fund for flood hazard mitigation activities and plan development and is appropriated by Congress on a yearly basis. States, territories and federally recognized tribes¹⁸ are eligible to apply for FMA assistance. NFIP participation is required to be eligible for funding; subapplicants must also be in “good standing” with the NFIP.¹⁹ FEMA publishes an up-to-date community status on the “[Community Status Book](#)” webpage. Local governments and non-federally recognized tribes are considered subapplicants and must apply to their applicant state, territory or federally recognized tribe. Annual priorities and other program information is communicated through the NOFO.

The period of performance for FMA is outlined in the NOFO. The relevant fiscal year NOFO should be referenced to verify conditions pertaining to the start, duration and end of the period of performance.

All applicants and subapplicants must have a FEMA-approved mitigation plan that has been adopted by the jurisdiction in accordance with [44 CFR Part 201](#) and applicable mitigation planning policies by

¹⁶ Public Law 103-325 (Sep. 23, 1994); Public Law 90-448 (Aug. 1, 1968), as amended, [42 U.S.C. § 4104\(c\)](#)

¹⁷ Public Law 112-141 (July 6, 2012)

¹⁸ [44 CFR § 77.2\(f\)](#)

¹⁹ [44 CFR § 59.1](#)





the application deadline and at the time FEMA obligates funding for mitigation activities.²⁰ Other eligibility requirements include that mitigation activities must be technically feasible and cost-effective or eliminate future payments from the National Flood Insurance Fund for severe repetitive loss structures through an acquisition and relocation or demolition activity.²¹ See [Part 4.C](#) for detailed information regarding the mitigation plan requirement.

For more FMA guidance, refer to [Part 10. Table 2](#) provides a high-level summary of the programs covered by this guide.

²⁰ According to [44 CFR § 77.6\(b\)](#), the approved mitigation plan must provide for reduction of flood losses to structures for which NFIP coverage is available. The FEMA-approved mitigation plan is required at the time of application and award.

²¹ [41 U.S.C. § 4104c](#).

Table 2. HMA Program Comparison

HMA Program Comparison	 HMGP	 HMGP Post Fire	 BRIC	 FMA
Program Type	Post-disaster	Post-disaster	Pre-disaster	Pre-disaster
Funding Availability	Presidentially declared disaster	FMAF-declared disaster	6% set aside from federal post-disaster grant funding	Annual appropriations
Competitive?	No	No	Yes	Yes
Eligible Applicants	States, federally recognized tribes, territories and the District of Columbia (DC)	States, federally recognized tribes, territories and DC	States, federally recognized tribes, territories and DC	States, federally recognized tribes, territories and DC
Eligible Subapplicants	State agencies, local governments, tribes and private nonprofit organizations	State agencies, local governments, tribes and private nonprofit organizations	State agencies, local governments and tribes	State agencies, local governments and tribes
Applicant Hazard Mitigation Plan Requirement*	Yes	Yes	Yes	Yes
Subapplicant Hazard Mitigation Plan Requirement*	Yes (except for a planning subapplication)	Yes (except for a planning subapplication)	Yes (except for certain capability- and capacity-building activities)†	Yes (except for a planning subapplication)
NFIP Participation	Communities with projects in SFHAs	Communities with projects in SFHAs	Communities with projects in SFHAs	Subapplicants and properties

* Tribes submitting subapplications as an applicant/subapplicant for funding to develop or update a hazard mitigation plan are not required to have an approved mitigation plan.

† Refer to the applicable NOFO for more information about subapplicant mitigation plan requirements for specific capability- and capacity-building activities.

E. Grants Management Regulations

Grants management plays an integral part in implementing HMA programs and dictates the procedures for FEMA officials responsible for administering funds during program implementation.

On Dec. 26, 2014, the Department of Homeland Security adopted the *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Administrative Requirements), which are codified in [2 CFR Part 200](#).²²

[2 CFR Part 200](#) generally applies to FMA and BRIC awards made on or after Dec. 26, 2014, and to all HMGP and HMGP Post Fire awards made under major disaster declarations or FMAG declarations declared on or after Dec. 26, 2014.²³

The Office of Management and Budget (OMB) will periodically revise [2 CFR Part 200](#). On April 22, 2024, OMB published a [Final Rule](#) revising the OMB Guidance for Federal Financial Assistance. The revised regulations apply to awards made or disasters declared on or after October 1, 2024. For awards made or disasters declared before October 1, 2024, the previous version of 2 CFR Part 200 applies.

FEMA also issues regulations, NOFOs and other guidance for HMA programs based on a program's authorizing statute. FEMA regulations have the force of law. These regulations, NOFOs and guidance documents also outline program parameters and procedures, including various administrative processes. While FEMA follows [2 CFR Part 200](#) for general grant administrative requirements, cost principles and single audit requirements, FEMA HMA-specific regulations take precedence over [2 CFR Part 200](#) if the HMA regulation is more specific.

F. Roles and Responsibilities of State, Local, Tribal and Territorial Governments

Unlike other federal assistance programs, individuals (such as property and business owners) or private nonprofits (with some exceptions) may not apply directly for HMA funding. It is the role of states, federally recognized tribes and territories to apply for HMA funding in accordance with the instructions and principles outlined in the HMA Guide.

Therefore, individuals or nonprofits interested in implementing hazard mitigation activities must work with their local governments (e.g., their local community planning office, emergency management office, hazard mitigation office, or, in certain cases, with eligible nonprofit organizations) to develop activities that could reduce property and other damage from future natural disasters in accordance

²² The Department of Homeland Security adoption of [2 CFR Part 200](#) is codified in [2 CFR Part 3002](#). These regulations incorporated, superseded and streamlined requirements from certain Office of Management and Budget (OMB) circulars. Upon the adoption of the Administrative Requirements in [2 CFR Part 200](#), FEMA removed 44 CFR Part 13 from the CFR.

²³ The superseded OMB circulars and guidance, including 44 CFR Part 13, continue to apply to all PDM and FMA awards made prior to Dec. 26, 2014, or HMGP awards made under emergency or major disaster declarations declared before Dec. 26, 2014. For details, refer to the 2015 HMA Guidance.

with their local hazard mitigation plan. These local governments (acting as subapplicants) apply to their state, federally recognized tribes or territory for consideration of being included in a FEMA HMA application.

The states, federally recognized tribes and territories (acting as applicants or recipients) have established mitigation priorities in their hazard mitigation plans. They are tasked with facilitating the development of subapplications from local jurisdictions (subapplicants or subrecipients) and to apply, on behalf of the local jurisdictions, to FEMA HMA programs, based on state, federally recognized tribal or territorial criteria and available assistance.

FEMA only accepts applications submitted by states, federally recognized tribes and territories (applicants). Upon receipt of the application, FEMA conducts an eligibility review to ensure compliance with federal laws, regulations and other directives before it approves a subapplication and grants a subaward. If the application is approved, funding is issued to applicants/recipients who, in turn, work with subapplicants/subrecipients to complete the activities included in the applications.

[Figure 1](#) outlines the application process from the perspective of the various stakeholders. The following sections outline in greater detail the roles and responsibilities of applicants/recipients and subapplicants/subrecipients involved in the HMA process.

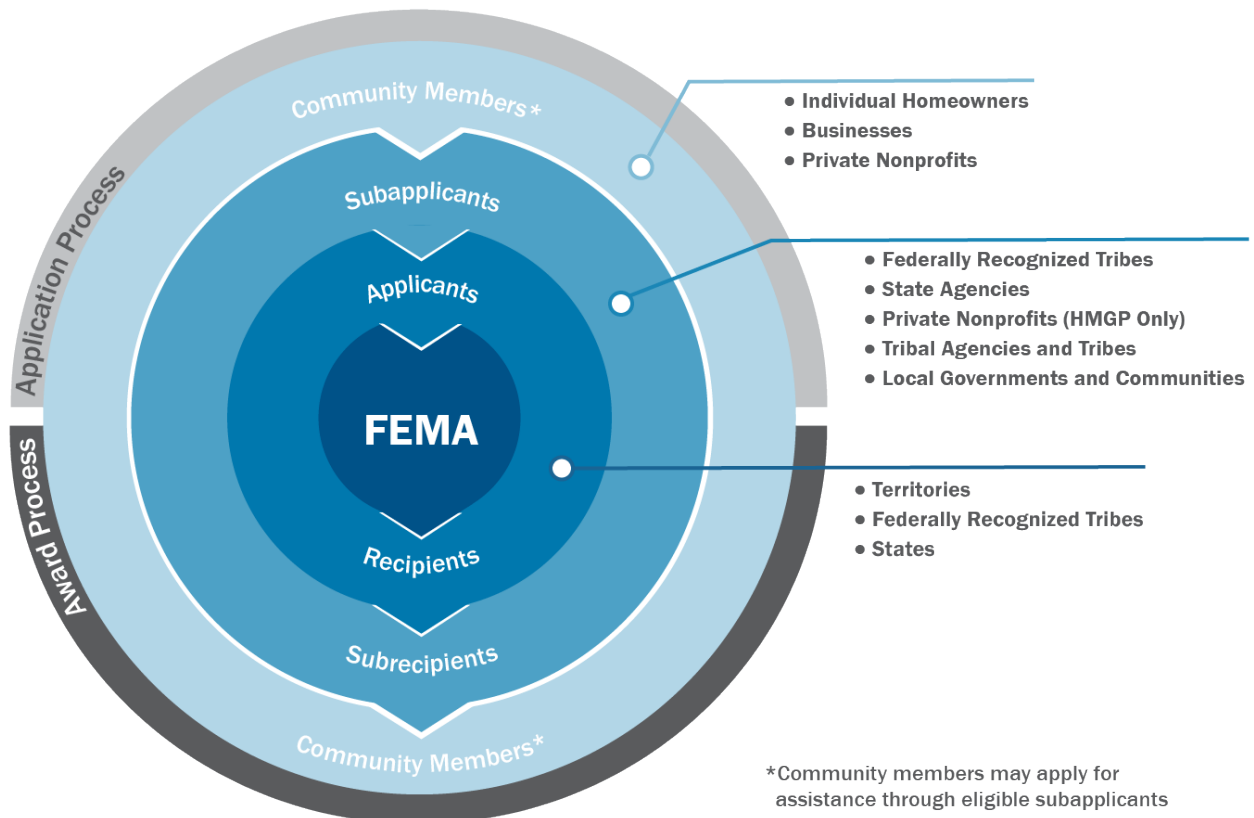


Figure 1. Roles of State, Local, Tribal and Territorial Entities Throughout the HMA Process

F.1. Applicants/Recipients

States, federally recognized tribes and territories are eligible applicants for HMA programs. The applicant is responsible for soliciting subapplications from eligible subapplicants and assisting in the preparation, review and submission of eligible and complete subapplications to FEMA. Applicants receive HMA awards. When assistance is awarded, the applicant then becomes the recipient and a pass-through entity. A recipient receives a federal award directly from FEMA to carry out an activity under an HMA program.²⁴ Pass-through entities are responsible for administering the award and complying with program requirements and other applicable federal, state, tribal and territorial laws and regulations. The pass-through entity is also responsible for the financial management of the program and oversight of all approved activities.²⁵

To be eligible for HMA programs, applicants must have a FEMA-approved state or tribal hazard mitigation plan that has been adopted by the jurisdiction in accordance with [44 CFR Part 201](#) and state or tribal mitigation planning policy. For more information on who or which entities are eligible applicants, refer to [Part 4](#).

F.2. Subapplicants/Subrecipients

The subapplicant is a state-level agency, local government, federally recognized tribe or other eligible entity that submits a subapplication for FEMA assistance to the applicant.²⁶ If HMA is awarded, the subapplicant becomes the subrecipient and is responsible for managing the subaward and complying with program requirements and other applicable federal, state, local, tribal or territorial laws and regulations.

In most cases, subapplicants are required to have a FEMA-approved local or tribal mitigation plan that has been adopted by the jurisdiction in accordance with [44 CFR Part 201](#) and applicable mitigation planning policies (local or tribal) to be eligible for HMA. Engagement in mitigation planning enhances the identification of community-driven solutions, refines discussions of alternative issues, and reduces ambiguity in applications. Extensive participation of stakeholders during the creation of a mitigation plan generally results in more robust and fully refined selection of mitigation activities.

For additional information on who or which entity can be a subapplicant, refer to [Part 4](#). For additional information on mitigation planning requirements, refer to the FEMA Mitigation Planning “[Regulations and Guidance](#)” webpage.

F.3. Federally Recognized Tribes

For purposes of HMGP, HMGP Post Fire, BRIC and FMA, federally recognized tribes may apply to FEMA directly as an applicant, or they may apply as a subapplicant through their state or territory.²⁷

²⁴ [2 CFR § 200.1](#)

²⁵ [2 CFR § 200.1](#) and [2 CFR § 200.332](#)

²⁶ [2 CFR § 200.1](#)

²⁷ Section 102 of the Stafford Act, [42 United States Code \(U.S.C.\) § 5122\(6\)](#) and [44 CFR § 77.2\(f\)](#)

For the purposes of HMGP assistance, federally recognized tribes may obtain their own disaster declaration consistent with Section 401 of the [Stafford Act](#).²⁸ Federally recognized tribes can also be recipients under a state’s declaration. If they choose to become a recipient under the state’s disaster declaration, they must do so before the application period closes. In this case, the assistance will be apportioned based on the damage the federally recognized tribe sustained from the disaster on the tribal land.

Finally, federally recognized tribes may choose to be subapplicants under a state’s disaster declaration. If a state receives a major disaster declaration that includes tribal lands, the tribal government may choose to be either a subrecipient or recipient for HMGP funding.

If a federally recognized tribe is interested in requesting HMGP assistance as an applicant based on the tribe’s own disaster declaration, the federally recognized tribe must submit a disaster declaration request. Once a tribal government receives a declaration, the tribal government becomes the recipient for the administration of any assistance authorized by the President for the declared incident, which may include HMGP.

A tribal government acting as a recipient will assume the responsibilities of a state under [44 CFR Part 206, Subpart N](#) for the purposes of administering the award.²⁹ Federally recognized tribes interested in acting as a recipient must have a FEMA-approved tribal mitigation plan in accordance with [44 CFR § 201.7](#). However, if a federally recognized tribe with a FEMA-approved tribal mitigation plan coordinates the review of its plan with the state, the tribe also has the option to apply as a subapplicant through that state or another federally recognized tribe. For more information regarding plan requirements, refer to Part 4.C.

For more information regarding tribal declarations, refer to the FEMA “[How a Disaster Gets Declared](#)” and “[Tribal Declarations Pilot Guidance](#)” webpages.

G. Hazard Mitigation Assistance Programs Resources



Hazard Mitigation Assistance Programs Resources

- How a Disaster Gets Declared: <https://www.fema.gov/disasters/how-declared>
- Tribal Declarations Pilot Guidance: <https://www.fema.gov/disasters/tribal-declarations>
- Mitigation Planning Regulations and Guidance: <https://www.fema.gov/emergency-managers/risk-management/hazard-mitigation-planning/regulations-guidance>
- Create a Hazard Mitigation Plan: <https://www.fema.gov/emergency-managers/risk-management/hazard-mitigation-planning/create-hazard-plan>

²⁸ [42 U.S.C. § 5170](#)

²⁹ [44 CFR § 206.431](#)

- HMGP: <https://www.fema.gov/grants/mitigation/hazard-mitigation>
- HMGP Post Fire: <https://www.fema.gov/grants/mitigation/post-fire>
- BRIC: <https://www.fema.gov/grants/mitigation/building-resilient-infrastructure-communities>
- FMA: <https://www.fema.gov/grants/mitigation/floods>
- NFIP Community Status Book: <https://www.fema.gov/flood-insurance/work-with-nfip/community-status-book>

Part 3. Subapplication Development

FEMA encourages applicants and subapplicants to comprehensively evaluate actionable strategies to reduce vulnerabilities for the whole community as part of the state, local, tribal and territorial mitigation planning process. This section describes the steps to develop a successful hazard mitigation subapplication.

A. Hazard Mitigation Assistance Subapplication Development Process

Every Hazard Mitigation Assistance (HMA) subapplication—whether it be for management costs, mitigation planning, project scoping or a hazard mitigation project—goes through various phases before the subapplication is selected and awarded.

The first steps in the subapplication development process generally present the best opportunity to develop viable activities to ensure subapplications can be successful. A subapplicant and an applicant may consider community needs, eligibility requirements, availability of project scoping, advance assistance or technical assistance and the requirements of later phases, such as project implementation, monitoring and closeout.

Determining the best hazard mitigation or resilience activity at the earliest point in the decision-making process increases the efficacy of the overall HMA program by expediting FEMA review and by reducing the need for Requests for Information. Reducing Requests for Information may result in quicker approval of the subapplication.

The HMA subapplication development process comprises the following steps:

1. Select a hazard mitigation activity.
2. Conduct scoping.
3. Determine funding strategy and consider eligibility requirements as well as other considerations.
4. Develop the subapplication.

Eligibility and other requirements are discussed in more detail in [Part 4](#).

The steps following subapplication development, including review and implementation phases, are described throughout the HMA Guide. [Figure 2](#) outlines the HMA process.

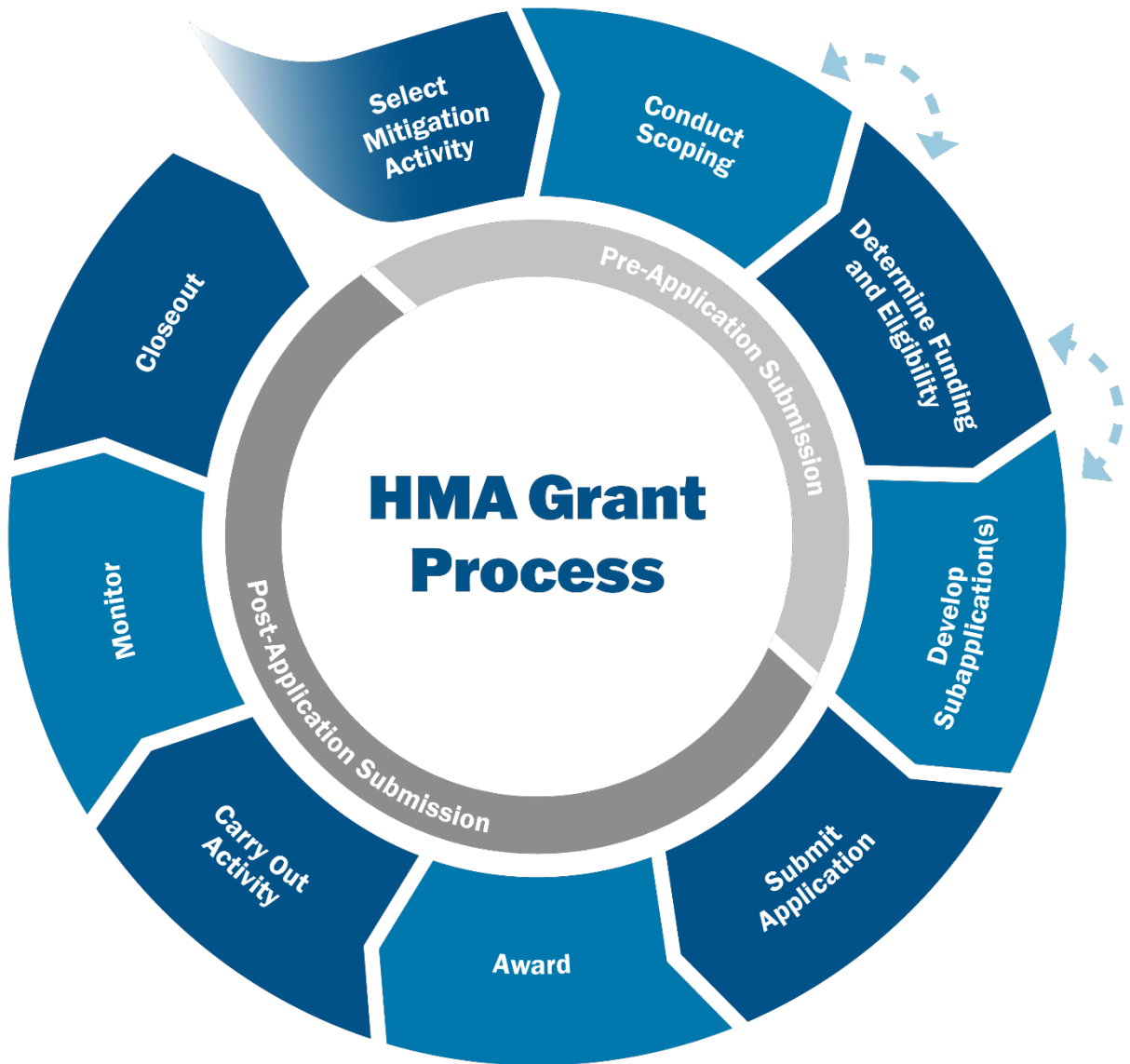


Figure 2. HMA Grant Process

B. Select a Hazard Mitigation Activity

The first step in the HMA process involves selecting potential activities based on the current community needs. Selecting a hazard mitigation activity is the link between the jurisdiction’s mitigation plan and scoping, by allowing the applicant and subapplicant to select the most appropriate mitigation activity that best addresses the vulnerabilities associated with identified hazard risk(s) while considering current priorities. Activities could include capability- and capacity-building activities, such as mitigation planning and project scoping, or hazard mitigation projects. More information about eligible activities is in [Part 4](#). Proposed hazard mitigation activities funded by HMA are expected to be consistent with the jurisdiction’s mitigation plan, which is reviewed and updated every five years and sets long-term priorities. If selected activities are not consistent or in

conformance with the mitigation plan, jurisdictions can review and update the plan and its priorities according to mitigation planning policy.

The priorities outlined in the hazard mitigation plan are prioritized actions to mitigate natural threats in the jurisdiction. Selecting a mitigation activity involves identifying what activities can be accomplished in a specific year or award cycle. Contacting the applicant's hazard mitigation officer or designated representative can be helpful in choosing which activities best fit the applicant's priorities for that year or award cycle.

C. Conduct Scoping

Scoping can significantly impact the course an application or subapplication takes through the HMA process. Scoping is the process by which subapplicants evaluate and select a preferred hazard mitigation alternative and develop a detailed outline of all aspects of the activity, including goals, all related activities, resources, timelines and deliverables, as well as the activity's boundaries.

The scoping process may include, depending on the activity type, an evaluation of technical feasibility, cost review, cost effectiveness, as well as EHP or cultural resource considerations of the hazard mitigation alternatives. The scoping process results in the development of a preferred activity alternative that is then documented through the preparation of the application or subapplication.

Eligible applicants and subapplicants that actively participate in and document the scoping process put themselves in a greater position for success during subapplication development. The information gathered in the scoping process serves as the basis for the development of a more detailed and robust scope of work, budget and EHP compliance components of the hazard mitigation activity.

During the scoping process, the applicant and subapplicant may encounter considerations such as technical feasibility, cost-effectiveness and EHP requirements that necessitate the refinement or adjustment of the hazard mitigation activity. [Figure 3](#) details considerations during each step of the scoping process.

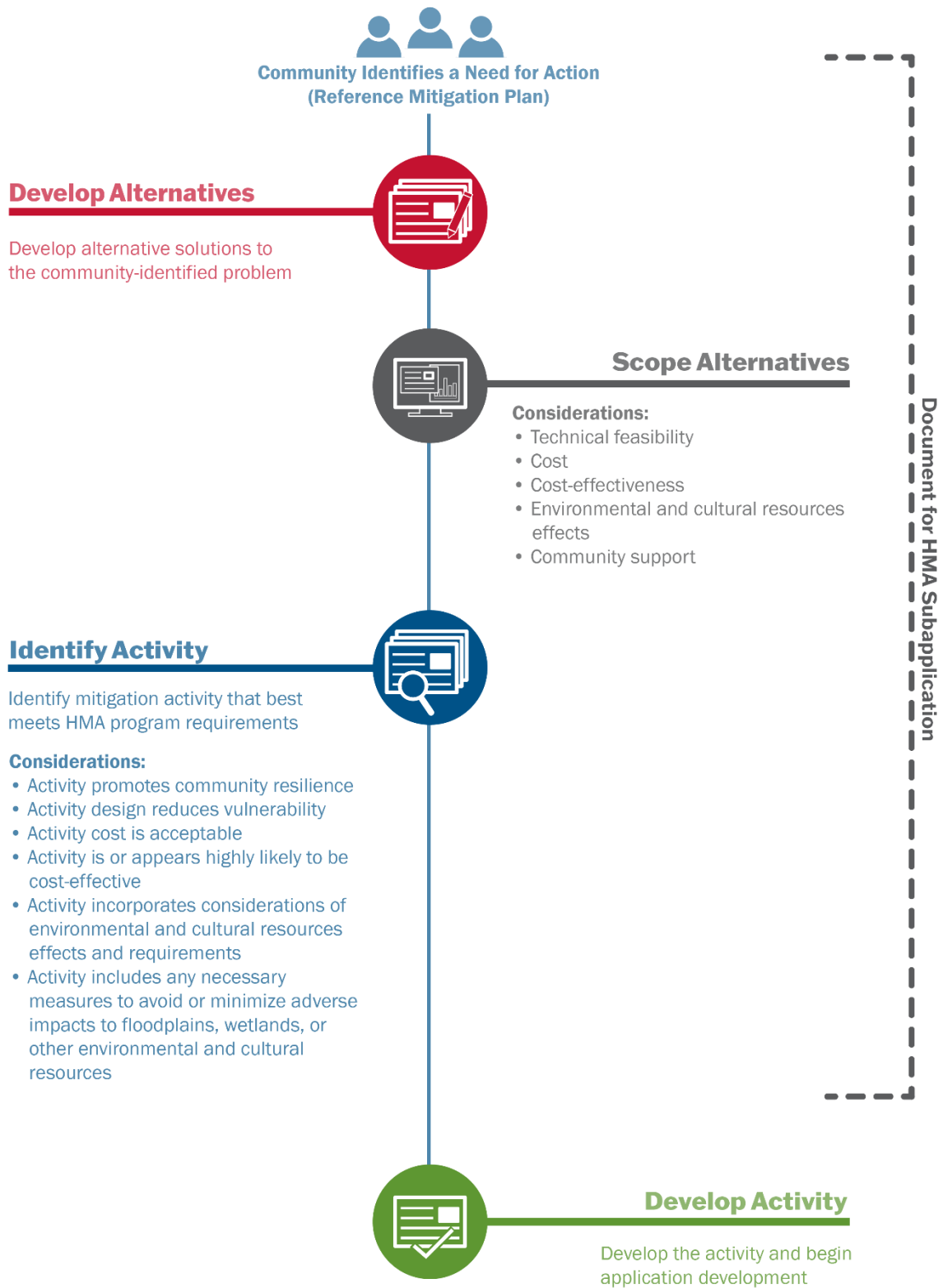


Figure 3. Scoping Process

Applicants and subapplicants should consider the whole range of program requirements at the beginning stages of activity scoping. Addressing HMA program requirements at the earliest stage possible in the decision-making process is important because it can lead to enhanced project scoping and development as well as prevent delays later in the subaward lifecycle.

The HMA program requirements comprise the following topics:

- Hazard mitigation plan requirements.
- Technical feasibility and effectiveness.
- Floodplain management and protection of wetlands.
- EHP review and compliance.
- Cost effectiveness.
- Cost review.

For specific information on scoping local hazard mitigation plans, refer to the [Considerations for Local Mitigation Planning Grant Subapplications](#) FEMA job aid (March 2021). For specific information on scoping tribal hazard mitigation plans, refer to the [Tribal Mitigation Planning and HMA Grant Application Development](#) FEMA job aid (March 2021).

D. Determine Funding Strategies

HMA programs offer options to assist applicants and subapplicants during the project scoping and development process. The programs may also help applicants and subapplicants identify opportunities to include hazard mitigation in Public Assistance (PA) projects and other recovery activities.

D.1. Project Scoping and Advance Assistance

Applicants and subapplicants may use hazard mitigation assistance for project scoping and advance assistance activities. Eligible activities include the development of hazard mitigation strategies, cost-share strategies and data gathering (including for EHP compliance considerations) to prioritize, select and develop complete and timely HMA applications. Project scoping and advance assistance activities can help applicants and subapplicants develop eligible and complete applications that include a feasible project budget and appropriate project milestones.

Under HMGP and HMGP Post Fire, advance assistance allows an advance of up to 25% of the HMGP ceiling or HMGP Post Fire available assistance amount to applicants/subapplicants to accelerate the implementation of HMGP or HMGP Post Fire.³⁰ While eligible activities for advance assistance are

³⁰ Section 404 of the [Stafford Act, 42 United States Code \(U.S.C.\) § 5170c](#).

limited to those described here, post-disaster activities and projects that need to begin early in the recovery process can be submitted to FEMA under HMGP and HMGP Post Fire as part of the 30-day or six-month assistance increment request. Refer to [Part 10](#) for additional information.

Project scoping eligibility for Building Resilient Infrastructure and Communities (BRIC) and Flood Mitigation Assistance (FMA) may be found in each program’s respective Notice of Funding Opportunity (NOFO).

For more information regarding project scoping and advance assistance, refer to [Part 11](#).

D.2. Management Costs

FEMA provides assistance under HMGP, HMGP Post Fire, BRIC and FMA for management costs incurred in the administration of HMA.

For HMGP and HMGP Post Fire, recipients may be reimbursed not more than 15% of the total amount of the award; not more than 10% may be used by the recipient and 5% by the subrecipient.³¹ FEMA will provide 100% federal assistance for management costs based on the total amount of the award incurred up to the rates established above.

For BRIC and FMA, the amount of management costs available and the level of FEMA assistance for management costs are identified in the NOFO. If any requirements in the HMA Guide conflict with the NOFO, the requirements in the NOFO take precedence.

For additional details regarding management costs, refer to [Part 10](#) and [Part 13](#).

D.3. Phased Projects

Phased projects are allowable under HMGP, HMGP Post Fire, BRIC and FMA, unless otherwise noted in the applicable NOFO.

The purpose of a phased project is to support the development of subapplication materials when it is beyond the subapplicant’s technical and financial resources to produce the required technical information. Phased project activities must provide the information necessary to complete a full subapplication (including EHP review for the selected project alternative) and demonstrate cost effectiveness. During Phase I, FEMA will work with the subapplicant and applicant to identify the technical information required to determine project eligibility. This information may consist of a combination of engineering or feasibility studies, engineering design, a Benefit-Cost Analysis (BCA) or documentation of an EHP review.

Phased projects are used when a subapplicant has a preliminary plan or concept where FEMA can determine initial eligibility. The preliminary plan or concept provides a guideline that the subapplicant can use during Phase I to develop cost estimates and final construction plans and other required

³¹ Section 324 of the [Stafford Act](#), [42 U.S.C. § 5165b](#)

analyses to determine eligibility (such as BCA or to meet EHP compliance requirements) before moving forward to Phase II construction. If the results of the Phase I deliverables indicate the project meets HMGP, HMGP Post Fire, BRIC or FMA requirements, the project may then be approved for construction under Phase II.

Phase I assistance is part of the project's total estimated cost and is subject to HMGP, HMGP Post Fire, BRIC or FMA cost-share requirements. The subrecipient is encouraged to complete Phase I within 24 months to allow for both Phase I and II to be completed within the award period of performance.

All applicants and subapplicants must follow the requirements under the federal procurement regulations.³² If applicants and subapplicants propose to use contract support for subapplication development and/or design and construction phases, they should review procurement and conflict of interest regulations to ensure they can comply with those requirements. More information about procurement can be found in [Part 4](#).

D.3.1. Phased Project: Pre-Screening Process to Determine Eligibility

Before approving funding for Phase I, FEMA may use the pre-screening process to collect data needed to determine the eligibility of the project before committing additional funding for project design.

The recipient must submit a subapplication, using the project specific information in [Part 12](#), that provides all available preliminary design and site data. While a phased project may not have all the required information, the scope of work must address how any gaps will be addressed in Phase I. The applicant and subapplicant must select the appropriate project code for the Phase I deliverables within the electronic application system for proper project tracking.

The project must meet the following pre-screening criteria for a conditional Phase I approval to verify they meet the following criteria:

- **Hazard mitigation plan:** The proposed project must be in conformance with the mitigation plan.
- **Justification for selection of the proposed project:** Justification must be provided for the selection of the proposed solution after consideration of a range of options. Minimum criteria for a solution include:
 - Analysis on why the selected approach was selected and at least two alternative proposals and why they were not selected.
 - Performance based criteria establishing the level of protection for the long-term solution along with the anticipated remaining risk after the proposed project is complete.

³² [2 CFR §§ 200.317-327](#)

- List of missing technical data to be collected and developed during Phase I, including a vulnerability assessment, engineering practices, established codes, standards, modeling techniques and best practices to which the design will conform.
- Proposed conceptual drawings or design.
- List of minimum deliverables and milestones to be completed during Phase I.
- **Scope of work:** The scope of work must identify the steps and deliverables needed to complete Phase I and preliminary actions to complete Phase II. Based on the pre-screening review, FEMA may use the Request for Information procedures to adjust the scope of work to ensure all program requirements can be addressed. The Phase II scope of work can be adjusted as part of the Phase II approval process.
- **Budget:** A detailed budget must be included in the subapplication. The estimated costs within this budget must identify all line items associated with the Phase I deliverables and an estimate for the Phase II costs. The Phase II estimate can be adjusted based on the findings of the Phase I deliverables through the budget amendment process.
- **Potential schedule and milestones:** The project demonstrates that it can likely be completed within the period of performance allowed by the program.
- **Potential cost effectiveness:** The project must demonstrate potential cost effectiveness based on a preliminary assessment of anticipated project benefits and cost. The subapplicant must be aware that this preliminary assessment is solely for the purpose of the Phase I pre-screening process and is not the final cost-effectiveness determination. A preliminary BCA is required at the time of subapplication. This must be based on feasible assumptions and available data regarding risk and must be determined by using the latest version of the [BCA Toolkit](#).
- **Other relevant technical data:** The subapplicant must provide available data, including hydrologic and hydraulic data, based on existing models and other relevant technical data, as appropriate.
- **EHP review:** FEMA will complete an initial review and provide technical assistance to identify major EHP compliance requirements and information needs. Additional EHP review by FEMA of the revised project design is required before Phase II approval. When a project is submitted for phased review and the Phase I scope of work is limited to developing engineering and architectural design plans, the Phase I review will likely meet a specified categorical exclusion (CATEX), which is a type of work categorically excluded from detailed analysis under the National Environmental Policy Act.³³ If applicable, FEMA will document the CATEX to a proposed action in a Record of Environmental Consideration, which would record that the Phase I aligns with the scope of the specified CATEX and documents any extraordinary circumstances.³⁴ Also, Phase I must comply with other EHP requirements such as Section 106 of the National Historic

³³ Public Law 91-190 (Jan. 1, 1970)

³⁴ If warranted by the extraordinary circumstances analysis, FEMA will conduct an Environmental Assessment.

Preservation Act,³⁵ Section 7 of the Endangered Species Act,³⁶ and [Executive Order \(EO\) 11988](#) on *Floodplain Management* (May 24, 1977), among others. FEMA will provide technical assistance during the Phase I review to identify any potential EHP compliance requirements, specify any information that would be needed to conduct a Phase II review, and determine what level of [National Environmental Policy Act](#) review is applicable to the action.³⁷ Applicants must address EHP requirements before construction can be implemented. It is important for applicants to identify all data needs during the pre-screening process and update the Phase I scope of work to ensure they are completed.

If required, FEMA will use the Request for Information procedures to request adjustments to the subapplication Phase I scope of work, schedule and budget so that it includes all required elements to complete Phase I.

D.3.2. Phase I: Conditional Approval

The applicant and FEMA may approve projects meeting the above pre-screening requirements for technical assistance under a Phase I conditional approval. FEMA and the applicant must coordinate closely to ensure mutual concurrence on all data and technical information as the Phase I technical review process proceeds. The sequence for the process is as follows:

- **Other relevant technical data:** If appropriate, the applicant and FEMA will review the technical data provided by the subapplicant including analyses such as hydrologic, hydraulic or geotechnical.
- **Engineering design:** Based on the technical data, the subapplicant develops an engineering and design layout and budget with project-specific technical assistance from the applicant and FEMA.
- **Compliance with EO 11988:** If applicable, based on the technical data and revised engineering design, the subapplicant must demonstrate the project's compliance with floodplain management requirements under [EO 11988](#) on *Floodplain Management* (May 24, 1977). If a Flood Insurance Rate Map amendment or revision is necessary, the applicant and FEMA will provide the subapplicant with technical assistance to meet this requirement.
- **Refinement of the cost-effectiveness assessment:** Based on the revised design, budget and calculations made by the BCA Toolkit, the applicant and FEMA must refine the preliminary assessment of cost effectiveness conducted prior to Phase I approval. This will result in a final benefit cost ratio to evaluate the project's cost effectiveness, which must include all the project costs, including Phase I. The BCA, developed through the BCA Toolkit, should be supported by available information including:

³⁵ Public Law 89-665 (Oct. 15, 1966), as amended; [36 CFR Part 800](#)

³⁶ Public Law 93-205 (Dec. 28, 1973), as amended; [16 U.S.C. § 1531](#)

³⁷ Public Law 91-190 (Jan. 1, 1970), [42 U.S.C. § 4321](#)

- Risk information supporting the pre-mitigation losses (e.g., Flood Insurance Rate Maps/Flood Insurance Study, loss history, structural risk assessments).
- Hazard mitigation effectiveness information supporting the risk reduction (e.g., commitment to a design standard,³⁸ level of protection [1% annual chance recurrence interval]).
- Cost estimate for the anticipated project cost (including design costs) along with supporting assumptions.
- **Key assumptions:** The applicant describes the key assumptions, along with justification or rationale for these assumptions, regarding risk, project effectiveness and cost.
- **EHP review:** The applicant and FEMA must conduct a review of the revised project design to ensure EHP compliance. The project must meet EHP requirements before Phase II is approved.

After Phase I work has been completed and submitted to FEMA, FEMA will review the data to determine if the project remains eligible to move forward to Phase II. If the project does not meet eligibility requirements, FEMA will notify the recipient and proceed with closing out the subaward. Phase II funding will not be obligated.

If after reviewing the Phase I data, the recipient and subrecipient decide they do not want to complete Phase II, they must submit a change in budget request justifying their request to withdraw the project so they can closeout the award. For more information regarding budget and scope of work changes, refer to [Part 8.F](#).

D.3.3. Phase II: Approval – Construction Process

If FEMA determines the project to be eligible, technically feasible, cost-effective and compliant with EHP requirements under the Phase I technical review, FEMA may then approve the project for construction under Phase II.

D.4. Pre-Award Costs

Pre-award costs directly related to developing a subapplication that are incurred prior to the date of the grant award are allowed, subject to FEMA approval at the time of the award. Pre-award costs may be incurred, for example, when gathering National Environmental Policy Act data or developing a BCA, preparing design specifications, or when holding workshops or meetings related to reviewing proposed alternatives and designs. Pre-award costs are allowable only to the extent that they would have been allowable if incurred after the date of the federal award.³⁹

³⁸ Such as [American Society of Civil Engineers Standard 24](#), *Flood Resistant Design and Construction* (2015) or [FEMA P-361](#), *Safe Rooms for Tornadoes and Hurricanes* (April 2021).

³⁹ [2 CFR § 200.458](#)

Pre-award costs may be cost shared or applicants and subapplicants may identify them as their non-federal cost share. For more information on cost share requirements, refer to [Part 4](#).

In general, pre-award costs are eligible for activities that involve no commitment of resources other than staffing and associated funding. Costs for activities, such as ground disturbance or construction, or activities that would affect historic properties and/or threatened and endangered species and that are initiated or completed outside of the application period and period of performance are not eligible. In addition, any ground disturbance or construction activity completed before FEMA approval is not allowed and therefore their associated costs are not eligible. Projects initiated or completed prior to the federal award or full approval of the project are not eligible.⁴⁰

Activities directly related to the project, including management costs and project costs, may be eligible for pre-award costs. Any pre-award costs designated as management costs count toward the 5% limit for subrecipient management costs. Eligible management costs activities may include developing the application or subapplication, preparing the BCA, and gathering EHP data. For more on management costs, refer to [Part 13](#).

To be eligible for HMA, pre-award costs must be identified as separate line items in the budget of the subapplication and cannot have been funded by another project, award or program. Applicants and subapplicants who are not selected for awards or subawards will not receive reimbursement for the corresponding pre-award costs.

For HMGP and HMGP Post Fire, eligible pre-award costs are those incurred after the date when HMGP is authorized, which is generally the date of the major disaster or FMAG declaration.⁴¹

For BRIC and FMA, the period of eligibility for pre-award costs is addressed in the NOFO.

E. Develop the HMA Subapplication

The next step in the HMA process is developing or assembling the subapplication. The principal components of a subapplication are the scope of work, budget and schedule. These pieces may be developed based on previous similar activities by the subapplicant through construction estimates, property appraisals and other technical evaluations.

Once the subapplicant prepares the subapplication, it is submitted to the applicant. Once the subapplications are collected, the applicant reviews and prioritizes submissions based on specific criteria that align with its hazard mitigation strategy with regard to available funding and activity type.

Finally, the application is submitted to FEMA for determination of eligibility based on cost effectiveness, technical feasibility, EHP review and the approved mitigation plan as applicable to activity type. FEMA may send the applicant a Request for Information. A Request for Information is

⁴⁰ For HMGP, refer to [44 CFR § 206.434\(d\)\(2\)](#) and [44 CFR § 206.439\(c\)](#); for FMA, refer to [44 CFR § 77.7\(b\)](#); for BRIC, refer to the relevant NOFO.

⁴¹ [44 CFR § 206.439](#)

often used to help clarify and strengthen the subapplication. For more information on the Request for Information process, refer to [Part 6](#).

Applications and subapplications submitted to FEMA must meet all program eligibility criteria outlined in the law, regulation and HMA Guide. FEMA does not accept incomplete or placeholder applications or subapplications. Incomplete applications or subapplications delay award and subaward approval if they do not contain sufficient information for FEMA to make a program eligibility determination.

If an application lacks the necessary eligibility information, FEMA cannot determine eligibility or approve an application.

The following documentation, which is needed to demonstrate eligibility, should be contained in the subapplication and application. Criteria may vary depending on the proposed activity, but applications/subapplications generally include all the elements below:

- Eligible applicant and subapplicant.
- Identification of hazard mitigation activity.
- Alternate hazard mitigation actions.
- Conformance with FEMA-approved mitigation plan.⁴²
- Scoping narrative that provides an outline of the proposed activities and outcomes and contains the following:
 - Detailed scope of work.
 - Work schedule demonstrating that the activity will be completed within the period of performance for the applicable program (refer to [Part 8.G](#)).
 - Budget that supports the scope of work, including the schedule, and reflects the total activity cost.
 - Cost share information that clearly identifies the source of the non-federal cost share and establishes that the non-federal cost share meets program eligibility requirements.
 - Cost-effectiveness information (refer to exceptions in [Part 5](#)).
 - Feasibility and effectiveness information (hazard mitigation project types only).

⁴² For HMGP, refer to [44 CFR § 206.434\(c\)\(1\)](#); for FMA, refer to [44 CFR § 77.6\(b\)](#); for BRIC, refer to the NOFO.

- EHP compliance documentation as required by EHP guidance (refer to [Table 5](#) for EHP Compliance Checklist).
- Assurances and approved forms in accordance with programming requirements (refer to [Part 6](#) and [Part 10](#)).
- Additional documentation as required by FEMA.

Subapplication requirements and the Environmental and Historic Preservation Checklist have been incorporated into FEMA’s electronic application system. For additional information on the above outlined elements of the subapplication, refer to [Part 6](#).

F. Subapplication Development Resources



Subapplication Development Resources

- *Considerations for Local Mitigation Planning Grant Subapplications* FEMA job aid: https://www.fema.gov/sites/default/files/documents/fema_hma-considerations-local-planning-grant-job-aid.pdf
- *Tribal Mitigation Planning and HMA Grant Application Development* FEMA job aid: https://www.fema.gov/sites/default/files/documents/fema_hma-tribal-job-aid.pdf
- Public Assistance program policy, guidance and fact sheets: <https://www.fema.gov/assistance/public/policy-guidance-fact-sheets>
- FEMA Policy 204-079-01, *Building Code and Floodplain Management Administration and Enforcement*: https://www.fema.gov/sites/default/files/2020-10/fema_building-dode-floodplain-management-ddministration-enforcement-policy_drra-1206_signed_10-15-2020.pdf
- National Environmental Policy Act: <https://www.epa.gov/nepa>
- EHP Guidance for FEMA Grant Applications: <https://www.fema.gov/grants/guidance-tools/environmental-historic>
- FEMA Section 504 of the Rehabilitation Act of 1973 Overview: <https://www.fema.gov/about/offices/civil-rights>
- Americans with Disabilities Act Title II Regulations: https://www.ada.gov/regs2010/titleII_2010/titleII_2010_regulations.htm
- *DHS Instruction Manual, Appendix A: DHS List of Categorical Exclusions*: <https://www.fema.gov/emergency-managers/practitioners/environmental-historic/laws/nepa/categorical-exclusion>

Part 4. Eligibility and Requirements

This part identifies eligibility and requirements for all Hazard Mitigation Assistance (HMA) programs, which include the following components:

- Eligible applicants and subapplicants.
- Eligible and ineligible activities.
- Hazard mitigation plan requirements.
- Cost effectiveness.
- Feasibility and effectiveness.
- Environmental and Historic Preservation (EHP).
- Cost eligibility.
- Cost sharing.
- Restrictions on the use of HMA.
- Other program requirements.

To be eligible for HMA programs, applicants and subapplicants must apply in the manner described in the HMA Guide.

A. Eligible Applicants

Entities eligible to apply to the HMA programs include the emergency management agency or a similar office of the 50 states (e.g., the office that has primary emergency management or floodplain management responsibility), the District of Columbia, American Samoa, Guam, the U.S. Virgin Islands, Puerto Rico, the Northern Mariana Islands, and federally recognized tribal governments, including Alaska Native villages and organizations. Each state, commonwealth, federally recognized tribal government⁴³ (including Alaska Native villages and organizations) or territory must designate one agency to serve as the applicant for each HMA program. Alaska Native corporations are ineligible, as they are privately owned.

⁴³ The term "Indian tribal government" means the governing body of any Indian or Alaska Native tribe, band, nation, pueblo, village, or community that the Secretary of the Interior acknowledges to exist as an Indian tribe under the Federally Recognized Indian Tribe List Act of 1994 (Section 102 of the Stafford Act, [42 United States Code \(U.S.C.\) § 5122\(6\)](#)). This does not include Alaska Native corporations, the ownership of which is vested in private individuals. (Also refer to [44 CFR§ 201.2](#) definitions, referring to [25 U.S.C. § 479a](#).)

B. Eligible Subapplicants

A subapplicant is generally defined as an entity that receives a subaward from a pass-through entity (recipient) to carry out part of a federal program.⁴⁴ This does not include an individual that is a beneficiary of such a program.

In general, which entity can be a subapplicant depends on the eligibility spelled out in the governing legislation or regulation of the HMA program under which assistance is sought.

Eligible subapplicants may include:

- State agencies.
- Local governments.
- Federally recognized tribal governments.
- Private nonprofit organizations (for the Hazard Mitigation Grant Program [HMGP] and Hazard Mitigation Grant Program Post Fire [HMGP Post Fire] only).⁴⁵

As indicated in [Part 4](#), individuals, businesses and certain private nonprofits are generally ineligible to directly apply for HMA. Applying for HMA happens through eligible subapplicants, who, in turn, submit a subapplication to applicants on behalf of individuals, businesses and private nonprofit organizations. This arrangement ensures consistency with the hazard mitigation priorities established by state, local, tribal and territorial governments.

[Table 3](#) highlights the eligibility of subapplicants under HMGP, HMGP Post Fire, BRIC and FMA.

Table 3: Eligible Subapplicants

Entity	HMGP	HMGP Post Fire	BRIC	FMA
State agencies	Yes	Yes	Yes	Yes
Local governments, including tribal governments*	Yes	Yes	Yes	Yes
Federally recognized tribal government	Yes	Yes	Yes	Yes

⁴⁴ [2 CFR § 200.1](#)

⁴⁵ For HMGP, refer to [44 CFR § 206.434\(a\)](#); for the FMA program, refer to [44 CFR § 77.6](#); for HMGP and Building Resilient Infrastructure and Communities, refer to [44 CFR § 206.2\(a\)\(16\)](#); for local governments, refer to [42 U.S.C. § 5122\(8\)](#) and [44 CFR § 201.2](#); for private nonprofit organizations, refer to [44 CFR § 206.221\(e\)](#).

Entity	HMGP	HMGP Post Fire	BRIC	FMA
Private nonprofit organizations and institutions that own or operate a facility that provides an essential government service as defined in 44 CFR § 206.221 [†]	Yes	Yes	No	No
Qualifying conservation private nonprofit organization [‡]	Yes	Yes	No	No

* Local governments may include non-federally recognized tribes or, consistent with the definition of local government in [42 U.S.C. § 5122\(8\)](#), may include any tribe, authorized tribal organization, or Alaska Native village or organization that is not federally recognized according to [25 U.S.C. § 479\(a\)](#) et seq.

[†] Private nonprofit organizations are defined in [44 CFR 206.221\(f\)](#).

[‡] Limited to acquisition and demolition or relocation projects.

B.1. State Agencies

State agencies are any department, commission, council, board, educational institution or official of the executive, legislative or judicial branch of a state or territorial government.

B.2. Local Governments

Local governments are any county, municipality, city, town, township, public authority, school district, special district, intrastate district, council of government, regional or interstate government entity, or an agency or instrumentality of a local government; any tribe or authorized tribal organizations, or Alaska Native village or organization; and any rural community, unincorporated town or village, or other public entity.⁴⁶

B.3. Private Nonprofit Organizations

Under HMGP and HMGP Post Fire, only certain private nonprofits are eligible subapplicants. To be an eligible subapplicant, the private nonprofit must own or operate a private nonprofit facility.⁴⁷ Private nonprofit organizations may apply as eligible subapplicants on behalf of other private nonprofit organizations if the organization(s) receiving assistance meets the eligibility criteria outlined in this section. A qualified conservation organization⁴⁸ is the only private nonprofit organization (that does

⁴⁶ [42 U.S.C. § 5122\(8\)](#), [2 CFR § 200.1](#)

⁴⁷ [44 CFR § 206.221\(e\)](#)

⁴⁸ [44 CFR § 80.3\(h\)](#)

not own or operate a nonprofit facility) that is eligible to apply for acquisition and demolition or relocation for open space projects.⁴⁹

To be eligible, a private nonprofit organization must show that it has either one of the following:

- A ruling letter from the Internal Revenue Service that was in effect as of the date of the declaration for HMGP and granted tax exemption under Sections 501(c), (d) and (e) of the Internal Revenue Code of 1954.⁵⁰
- Documentation from the state substantiating it is a nonrevenue producing nonprofit, organized or doing business under state law.⁵¹

To determine private nonprofit eligibility, FEMA must also determine whether the private nonprofit organization owns or operates a private nonprofit that provides one of the services listed below:

- A facility that provides a critical service, defined as education, utility, irrigation, emergency, medical, or custodial care.⁵²
- A facility that provides a noncritical but essential government service and provides those services to the general public.⁵³
- Certain types of facilities, such as senior centers, that restrict access in a manner clearly related to the nature of the facility and are still considered to provide essential government services to the general public.

Under Building Resilient Infrastructure and Communities (BRIC) and Flood Mitigation Assistance (FMA), private nonprofit organizations are not eligible subapplicants and cannot apply for HMA. However, an eligible subapplicant may apply on their behalf. Likewise, partnerships that are formed in support of a BRIC project must have an eligible subapplicant submit a subapplication. Partnerships may include private nonprofits as well as other private sector entities.

B.4. Federally Recognized Tribal Government

A federally recognized tribal government has the option to apply for the HMA programs through the state as a subapplicant (when permitted) or directly to FEMA as an applicant. This choice is independent of a designation under other FEMA grants and programs but is not available on a case-by-case basis within a single grant program in the same year. If a federally recognized tribe chooses to apply directly to FEMA and an award is made, it bears the full responsibility of a recipient. Alaska Native Corporations are ineligible, as they are privately owned.

⁴⁹ [44 CFR § 206.434](#)

⁵⁰ Public Law 591 – Chapter 736 (Aug. 16, 1954), as amended

⁵¹ [44 CFR § 206.221\(f\)](#)

⁵² [44 CFR § 206.221\(e\)](#)

⁵³ [44 CFR § 206.221\(e\)\(7\)](#)

C. Hazard Mitigation Plan Requirements

Under most circumstances, to be eligible for HMA, all applicants and subapplicants must have a FEMA-approved mitigation plan. Applicants and subapplicants must adopt the mitigation plan before FEMA will approve it. This section presents information on how applicants and subapplicants can meet the mitigation plan requirement for HMA programs. It also presents information on extraordinary circumstances and the requirement for conformance with hazard mitigation plans for HMA activities. Guidance for developing and updating mitigation plans can be found on the “[Hazard Mitigation Planning](#)” webpage.

C.1. Applicant Mitigation Plan Requirements

FEMA will not obligate funds for HMGP, HMGP Post Fire, BRIC or FMA during any period when the state or tribal mitigation plan is lapsed. A lapse in the FEMA-approved mitigation plan will result in a hold on additional obligations until the mitigation plan regains FEMA approval.

C.1.1. HMGP Applicant Mitigation Plan Requirements

HMGP applicant mitigation plan requirements are unique and differ between state and tribal recipients.

To be eligible for increased HMGP funding of up to 20% of the aggregate amount of disaster assistance, designated state agencies and federally recognized tribal governments must have a FEMA-approved state or tribal mitigation plan meeting the requirements for Enhanced State Mitigation Plans in [44 C.F.R. § 201.5](#) at the time of the major disaster declaration.⁵⁴

C.1.1.1. State Recipient for HMGP

State agencies applying for HMGP must have a FEMA-approved state mitigation plan at the time of the major disaster declaration and when HMGP is obligated to the recipient or subrecipient. States that do not have a FEMA-approved state mitigation plan at the time of the major disaster declaration must have a FEMA-approved state mitigation plan no later than 30 days after the date of the major disaster declaration. If the mitigation plan has not been approved within this time frame, FEMA will deny the state’s application for HMGP assistance. If the state’s FEMA-approved mitigation plan lapses after the major disaster declaration, FEMA will place a hold on additional obligations for HMGP projects until the mitigation plan regains FEMA approval.

C.1.1.2. Federally Recognized Tribal Government as a Recipient Under a Tribal Declaration for HMGP

A federally recognized tribal governments applying for HMGP as a recipient must have a FEMA-approved tribal mitigation plan at the time of the tribal major disaster declaration and at the time

⁵⁴ [44 CFR § 206.432\(b\)\(2\)](#)

HMGP is obligated to the recipient or subrecipient.⁵⁵ A federally recognized tribal government that does not have a FEMA-approved tribal mitigation plan at the time of the tribal major disaster declaration must have a FEMA-approved plan no later than 90 days after the declaration. If a tribal government does not have a FEMA-approved plan within 90 days of the declaration, it may request an extension of up to 30 additional days. If the tribal government does not have an approved plan within the maximum 120-day time frame, HMGP will not be made available to the tribal government for the disaster. If the federally recognized tribal government's mitigation plan lapses after the major disaster declaration, FEMA will place a hold on additional obligations for HMGP projects until the mitigation plan regains FEMA approval.

C.1.1.3. Federally Recognized Tribal Government as a Recipient Under the State Declaration for HMGP

A federally recognized tribal governments applying for HMGP as a recipient under the state's major disaster declaration must have a FEMA-approved tribal mitigation plan at the time of the signing of the FEMA Tribal Agreement and at the time HMGP is obligated to the recipient or subrecipient. A federally recognized tribal government applying for HMGP as a recipient that does not have a FEMA-approved tribal mitigation plan at the time of signing of the FEMA Tribal Agreement must have a FEMA-approved plan no later than 90 days after signature. If a tribal government does not have a FEMA-approved plan within 90 days of the declaration, it may request an extension of up to 30 additional days. If the tribal government does not have a FEMA-approved plan within the maximum 120-day time frame, HMGP will not be made available to the tribal government for the disaster. If the federally recognized tribal government's mitigation plan lapses after the signing of the FEMA Tribal Agreement, FEMA will place a hold on additional obligations for HMGP projects until the mitigation plan regains FEMA approval.

C.1.2. HMGP Post Fire Applicant Mitigation Plan Requirements

HMGP Post Fire applicant mitigation plan requirements are unique and differ between state and tribal recipients.

The apportionment of HMGP Post Fire assistance will be calculated based on the amount of each recipient's burned acreage as a percentage of the allotment to which they are entitled under the calculation described above.

C.1.2.1. State Recipient for HMGP Post Fire

States applying for HMGP Post Fire must have a FEMA-approved state mitigation plan at the time of the FMAG declaration and at the time HMGP Post Fire is obligated to the recipient or subrecipient. States that do not have a FEMA-approved state mitigation plan at the time of the FMAG declaration must have a FEMA-approved state mitigation plan no later than 30 days following the date of the FMAG declaration. If the mitigation plan has not been approved within this time frame, FEMA will deny the state's application for HMGP Post Fire assistance. If the state's FEMA-approved mitigation

⁵⁵ [44 CFR § 206.434\(c\)\(1\)](#)

plan lapses after the FMAG declaration, FEMA will place a hold on additional obligations for HMGP Post Fire projects until the mitigation plan regains FEMA approval.

C.1.2.2. Federally Recognized Tribal Government as a Recipient Under a State FMAG Declaration for HMGP Post Fire

A federally recognized tribal governments applying for HMGP Post Fire under a state FMAG declaration must have a FEMA-approved tribal mitigation plan at the time of the signing of the FEMA Tribal Agreement and at the time HMGP Post Fire is obligated to the recipient or subrecipient. In this circumstance, a federally recognized tribal governments that does not have a FEMA-approved tribal mitigation plan at the time of signing the FEMA Tribal Agreement must have an approved plan no later than 90 days after the signing of the FEMA Tribal Agreement. If a tribal government does not have an approved plan within 90 days of the signing of the FEMA Tribal Agreement, then it may request an extension of up to 30 additional days. If the tribal government does not have an approved plan within the maximum 120-day timeframe, HMGP Post Fire assistance will not be made available to the tribal government for the disaster. If the tribal government's mitigation plan lapses after the signing of the FEMA Tribal Agreement, FEMA will place a hold on additional obligations for HMGP Post Fire projects until the mitigation plan regains FEMA approval.

C.1.2.3. BRIC and FMA Mitigation Plan Requirements

All applicants for BRIC and FMA must have a FEMA-approved state or tribal (standard or enhanced) mitigation plan by the application deadline and at the time of obligation of the award.⁵⁶ If the applicant's FEMA-approved mitigation plan lapses after the application deadline, FEMA will place a hold on additional obligations for BRIC or FMA projects until the mitigation plan regains FEMA approval.

C.2. Subapplicant Mitigation Plan Requirements

State agencies, local governments, private nonprofits and tribal governments (regardless of their federally recognized status) acting as subapplicants have different mitigation plan requirements.

Subapplicants without a FEMA-approved mitigation plan may apply to any of the HMA programs for assistance to develop a new plan.

C.2.1. State Agencies, Local Governments and Private Nonprofit Subapplicant Mitigation Plan Requirements

State agencies are eligible subapplicants under HMGP, HMGP Post Fire, BRIC and FMA; a FEMA-approved state mitigation plan is required as a condition of the state agencies receiving assistance.⁵⁷

⁵⁶ [44 CFR Part 201, 44 CFR § 77.6\(b\)](#)

⁵⁷ [44 CFR § 201.4](#)

State agencies and local governments applying as subapplicants for HMGP and HMGP Post Fire must have a FEMA-approved mitigation plan at the time of obligation of grant assistance.⁵⁸ Private nonprofit subapplicants do not have mitigation plan requirements as a condition of subapplicant eligibility under HMGP and HMGP Post Fire. While a private nonprofit does not need to have a FEMA-approved mitigation plan, the jurisdiction in which the proposed activity is located must have a current, FEMA-approved local mitigation plan.

State agencies and local governments applying as subapplicants under BRIC and FMA must have a FEMA-approved mitigation plan by the application deadline and at the time of obligation of grant assistance, unless otherwise noted by the applicable NOFO.⁵⁹ Private nonprofits are not eligible subapplicants under BRIC and FMA.

C.2.2. Federally Recognized Tribal Government Subapplicant Mitigation Plan Requirements

All federally recognized tribal governments applying as subapplicants under HMGP and HMGP Post Fire must have a FEMA-approved tribal mitigation plan at the time of obligation of grant assistance.

All federally recognized tribal governments applying as subapplicants for BRIC and FMA must have a FEMA-approved tribal mitigation plan by the application deadline and at the time of obligation of grant assistance, unless otherwise noted by the applicable NOFO.⁶⁰

C.2.3. Mitigation Plan Requirements for Tribal Applicants that are not Federally Recognized

Under HMGP and HMGP Post Fire, tribes that are not federally recognized are considered “local governments” under the Stafford Act and must meet the requirements in [44 CFR § 201.6](#) as a condition of receiving assistance.

Under BRIC, tribes that are not federally recognized are considered “local governments” under the Stafford Act and must meet the requirements in [44 CFR § 201.6](#) by the application deadline and at the time of obligation of grant assistance, unless otherwise noted by the applicable NOFO.

Under FMA, tribes that are not federally recognized are considered “communities”⁶¹ when applying for assistance and must comply with [44 CFR § 201.6](#) by the application deadline and at the time of obligation of grant assistance, unless otherwise noted by the applicable NOFO.

C.2.4. Subrecipient Plan Lapse

If a subrecipient’s approved mitigation plan lapses after FEMA has obligated the initial funding under the subaward, FEMA may continue to make certain additional funding available under the terms of the subaward, including amendments to the subaward, for carrying out mitigation measures

⁵⁸ [44 CFR § 206.434\(b\)](#)

⁵⁹ [44 CFR § 201.6](#), [44 CFR § 201.7](#)

⁶⁰ [44 CFR § 201.7](#)

⁶¹ [42 U.S.C. § 4104c\(h\)\(1\)](#)

approved prior to the plan lapse. Specifically, this includes funding related to cost overruns, incremental funding (e.g., Strategic Funds Management), or phased projects. This flexibility does not extend to changes to the scope of work following a post-award plan lapse. An approved mitigation plan would be necessary to approve the new scope of work as consistent with the plan. Refer to [Part 8.F](#) for additional information.

C.2.5. Extraordinary Circumstances

A local government or tribal government applying as a subapplicant must have a mitigation plan approved by FEMA to receive HMA project subawards. However, the FEMA regional administrator may grant an exception to the plan requirements in extraordinary circumstances when the appropriate justification is provided.⁶²

For HMGP, HMGP Post Fire, BRIC and FMA, extraordinary circumstances exist when FEMA or the applicant determine that the proposed project is consistent with the priorities and strategies identified in the state or tribal (standard or enhanced) mitigation plan and that the jurisdiction meets at least one of the criteria below:

- The jurisdiction meets the small impoverished community criteria.⁶³
- The jurisdiction has been determined to have had insufficient capacity because of lack of available assistance, staffing or other necessary expertise to satisfy the mitigation planning requirement prior to the current disaster or application deadline.
- The jurisdiction experienced significant disruption from a declared disaster or another event that impacts its ability to complete the mitigation planning process prior to award or final approval of a project award.
- The jurisdiction does not have a mitigation plan for reasons beyond the control of the state, federally recognized tribal government or local community, such as Disaster Relief Fund restrictions, that delay FEMA from granting a subaward prior to the expiration of the local or tribal mitigation plan.

The applicant must provide written justification that identifies the specific criteria from the above list and explains why the jurisdiction will be able to have a plan both approved by FEMA and adopted by the jurisdiction within 12 months of the award of the project subaward to that community. The justification must identify the specific actions or circumstances that have eliminated or will eliminate the deficiency that prevented the jurisdiction from previously having an approved plan. The justification must clearly demonstrate how the above circumstances impacted the community beyond just stating the above circumstances.

⁶² [44 CFR § 201.6\(a\)\(3\)](#), [44 CFR § 201.7\(a\)\(2\)](#)

⁶³ [42 U.S.C. § 5133\(a\)](#)

If FEMA grants an extraordinary circumstances exception, a local or tribal mitigation plan must be approved by FEMA within 12 months of the award of the project subaward to that community. The recipient must acknowledge in writing to the regional administrator that the jurisdiction will complete a plan within 12 months of the subaward. The recipient must provide a Compliance Action Plan for completing the local or tribal mitigation plan, including milestones and a timetable, to ensure the jurisdiction will complete the plan in the required time. This requirement must be incorporated into the award (both the planning and project subaward agreements if a planning subaward is also awarded). If a plan is not provided within this time frame, the project subaward will be terminated, and any costs incurred after notice of subaward termination will not be reimbursed by FEMA.⁶⁴ FEMA must notify the recipient of the subaward termination. For more information on award termination, refer to [Part 8](#).

If the mitigation plan is not approved by FEMA within 12 months of the award, and if the subaward also involved a mitigation planning award, FEMA should notify the recipient of its failure to meet the additional specific award or subaward conditions and request that the issue be corrected following remedies for noncompliance procedures in [Part 8](#). If compliance cannot be achieved, FEMA will apply a remedy action to the planning subaward to address the noncompliance and may, as a result, withhold assistance, recoup assistance, suspend or terminate the planning subaward.⁶⁵

C.2.6. Consistency with Hazard Mitigation Plans

Activities submitted for consideration for HMA must be consistent with the current, FEMA-approved state or tribal (standard or enhanced) mitigation plan as well as the local or tribal mitigation plan for the jurisdiction in which the activity is located.⁶⁶ Specifically, the activity must be consistent with the goals and objectives of the plan, and it must directly reduce the vulnerabilities identified in the risk assessment.

Often state agencies, acting as the subrecipients, administer subawards for state assets. In these instances, the state is required to have a FEMA-approved state mitigation plan, but a local or tribal mitigation plan is not required. For example, the mitigation of a state-owned transportation facility located within the jurisdiction of a local government that does not have a mitigation plan may be eligible for HMA programs. The state's Department of Transportation (DOT) may submit a subapplication to protect the facility, provided its assets are covered in the state's mitigation plan, even if the local jurisdiction does not have a mitigation plan.

Additionally, a local or tribal mitigation plan is not required when a state agency or private nonprofit, acting as a subapplicant, proposes an activity that meets all of the following criteria:

- The activity will be administered by the state agency or private nonprofit as a statewide initiative or program.

⁶⁴ [44 CFR § 201.6\(a\)\(3\)](#)

⁶⁵ [2 CFR § 200.339](#)

⁶⁶ [44 CFR § 206.434\(c\)\(1\)](#), [44 CFR § 201.4](#), [44 CFR § 201.6](#)

- The statewide initiative or program is consistent with the goals and objectives of the current FEMA-approved state or tribal (standard or enhanced) mitigation plan.
- The state agency or private nonprofit is not applying on behalf of or instead of a local government to circumvent the local or tribal mitigation plan requirement.
- The community in which the activity is located does not have any financial interest in the subaward (e.g., property ownership, long-term maintenance) or significant authority over the activity (except for permits under current building codes).

Where there is a local or tribal government planning requirement (for the subrecipient), statewide plans will not be accepted as multi-jurisdictional plans.⁶⁷

D. Eligible Activities

To be eligible, activities must meet all requirements referenced in the HMA Guide. [Table 4](#) summarizes eligible activities that may be funded by the HMA programs. This table is not comprehensive, and FEMA encourages subapplicants to submit new and innovative activities that may not be specifically outlined below.

Eligible activities fall into three categories:

1. Capability- and Capacity-Building (non-construction) ([Part 11](#)).
 - a. Mitigation planning and planning-related activities.
 - b. Advance assistance.
 - c. Project scoping.
 - d. Partnerships.
 - e. Technical assistance (financial/non-financial).
 - f. Codes and standards.
2. Hazard mitigation projects (construction) ([Part 12](#)).
3. Management costs ([Part 13](#)).

⁶⁷ [44 CFR § 201.6\(a\)\(4\)](#)

Table 4: Eligible Activities by Program

Eligible Activities	HMGP	HMGP Post Fire	BRIC	FMA
1. Capability- and Capacity-Building				
New Plan Creation and Updates	Yes	Yes	Yes	Yes*
Planning-Related Activities	Yes	Yes	Yes	Yes*
Advance Assistance	Yes	Yes	No	No
Project Scoping	No	No	Yes	Yes
Financial Technical Assistance	No	No	No	Yes
Direct Non-Financial Technical Assistance	No	No	Yes	No
Partnerships	No	No	Yes	Yes
Codes and Standards	Yes	Yes	Yes	No
Innovative Capability- and Capacity-Building	Yes	Yes	Yes	Yes†
2. Hazard Mitigation Projects				
Property Acquisition and Structure Demolition or Relocation	Yes	Yes	Yes	Yes
Mitigation Reconstruction	Yes	Yes	Yes	Yes
Structure Elevation	Yes	Yes	Yes	Yes
Stabilization	Yes	Yes	Yes	Yes
Flood Risk Reduction	Yes	Yes	Yes	Yes**
Floodproofing	Yes	Yes	Yes	Yes
Tsunami Vertical Evacuation	Yes	Yes	Yes	No
Safe Room	Yes	Yes	Yes	No
Wildfire Mitigation	Yes	Yes	Yes	No
Retrofit	Yes	Yes	Yes	Yes†

Eligible Activities	HMGP	HMGP Post Fire	BRIC	FMA
Secondary Power Source	Yes	Yes	Yes	No
Warning Systems	Yes	Yes	Yes	No
Aquifer Recharge, Storage and Recovery	Yes	Yes	Yes	Yes***
Innovative Hazard Mitigation Project††	Yes	Yes	Yes	Yes
3. Management Costs	Yes	Yes	Yes	Yes

* For FMA, new plans, plan updates and planning-related activities must provide for the reduction of flood losses to structures for which National Flood Insurance Program (NFIP) coverage is available.⁶⁸

** For FMA, non-localized flood risk reduction projects such as dikes, levees, floodwalls, seawalls, groins, jetties, dams and large-scale waterway channelization projects are not eligible unless the administrator specifically determines in approving a mitigation plan that such activities are the most cost-effective hazard mitigation activities for the National Flood Mitigation Fund.

*** For FMA, aquifer recharge, storage and recovery projects may be eligible under FMA if the purpose of the project is to provide flood mitigation benefits to NFIP participating communities and is demonstrated to eliminate future claims against the NFIP.

† Only flood-related retrofitting projects are eligible.

†† Innovative Capability- and Capacity-Building Activities and Innovative Hazard Mitigation Projects not described in the HMA Guide will be evaluated on their own merit against program requirements. Eligible activities will be approved on a case-by-case basis.

D.1. Capability- and Capacity-Building

The following assistance strategies can be used to develop hazard mitigation activities. For a complete description of eligibility criteria for each of these categories, refer to [Part 11](#).

D.1.1. New Plan Creation and Plan Updates

Natural hazard mitigation planning consists of the process used by state, local and tribal governments to engage stakeholders, identify hazards and vulnerabilities, develop a long-term strategy to reduce risk and future losses, and implement the plan, taking advantage of a wide range of resources. New plan creation and plan update activities must result in a mitigation plan adopted by the jurisdiction(s) and approved by FEMA. New plan creation and plan updates are eligible under HMGP, HMGP Post Fire, BRIC and FMA.

D.1.2. Planning-Related Activities

To strengthen hazard mitigation across the country, FEMA supports a variety of planning-related activities under HMGP, HMGP Post Fire, BRIC and FMA. This assistance provides flexibility to state,

⁶⁸ [44 CFR § 77.6\(b\)](#)

local and tribal governments to reduce risk and integrate hazard mitigation principles into planning for resilience.

D.1.3. Advance Assistance

Advance assistance refers to activities that enable applicants and subapplicants to develop hazard mitigation strategies and obtain data to prioritize, select and develop complete HMGP or HMGP Post Fire applications under the same HMGP or HMGP Post Fire award in a timely manner.

D.1.4. Project Scoping

Project scoping refers to activities that enable applicants and subapplicants to develop hazard mitigation strategies and obtain data to prioritize, select and develop complete BRIC or FMA applications in a timely manner.

D.1.5. Technical Assistance (Financial and Non-Financial)

Financial technical assistance awards are only available under FMA and are meant to allow applicants to maintain a viable FMA program over time.⁶⁹ Eligible activities include program promotion, site visits, application development and review, planning and grants management workshops and staff assistance.

Non-financial technical assistance is available under BRIC to allow communities to support hazard mitigation outcomes to improve resilience to natural hazards, sustain successful hazard mitigation programs, submit high-quality applications and implement innovative activities to reduce risk.⁷⁰ Through non-financial Direct Technical Assistance, FEMA will provide support for both activity-specific needs and community-wide resilience needs. Refer to the applicable Notice of Funding Opportunity (NOFO) for more information.

D.1.6. Partnerships

Community resilience cannot be achieved without leveraging a broad network of partners that include (but are not limited to) all levels of government, the private sector, private nonprofits, and educational institutions. These partners are key to driving investments in hazard mitigation projects, building capability through training and technical assistance, planning for increased resilience, promoting hazard mitigation activities, and sharing information to promote and sustain a ready FEMA and prepared nation.

To ensure applicants and subapplicants can build partnerships to support their hazard mitigation efforts, partnership activities may be eligible under BRIC and FMA. For more information, refer to [Part 11](#) and the applicable BRIC and FMA NOFOs.

⁶⁹ [42 U.S.C. § 4104c\(c\)\(3\)\(J\)](#)

⁷⁰ Section 203(e) of the [Stafford Act](#), [42 U.S.C. § 5133\(e\)](#)

Partnership activities are not eligible under HMGP.

D.1.7. Codes and Standards

FEMA will fund the development, adoption, evaluation, enhancement and enforcement of building codes and standards through HMA. Assistance for building code-related activities is available through the HMGP, HMGP Post Fire and BRIC programs. Eligible activities under these three programs are generally the same; program-specific restrictions are detailed in [Part 11](#).

D.2. Hazard Mitigation Projects

Eligible hazard mitigation project types are described below. More information regarding these project types can be found in [Part 12](#).

D.2.1. Property Acquisition and Structure Demolition or Relocation

FEMA-assisted property acquisition and structure demolition or relocation projects consist of a community purchasing properties from voluntary sellers and either demolishing or relocating the structures on the property to a new site outside of the hazard-prone area (e.g., outside of the Special Flood Hazard Area [SFHA], high fire zone area or a regulatory erosion zone). The purchased property is then maintained, in perpetuity, for open-space purposes and to restore or conserve the site's natural functions.

D.2.2. Mitigation Reconstruction

Mitigation reconstruction is the construction of an improved, elevated structure that conforms to the latest building codes on the same site where an existing structure and/or foundation has been partially or completely demolished or destroyed.

D.2.3. Structure Elevation

Structure elevation is the physical raising and/or retrofitting of an existing structure. Elevation may be achieved through a variety of methods, including elevating on continuous foundation walls; elevating on open foundations, such as piles, piers, posts or columns; elevating on fill; and second-story conversion.

D.2.4. Stabilization

Stabilization projects reduce risk to structures or infrastructure from erosion and landslides by installing geosynthetics, stabilizing sod, installing vegetative buffer strips, preserving mature vegetation, decreasing slope angles, and stabilizing with riprap and other means of slope anchoring.

D.2.5. Flood Risk Reduction

Flood risk reduction projects are designed to lessen the frequency of flooding or depth of flood water. Flood risk reduction project types fall into two categories: localized and non-localized.

Localized flood risk reduction projects are used to lessen the frequency or severity of flooding and decrease predicted flood damage within an isolated and confined drainage or catchment area that is not hydraulically linked or connected to a larger basin. Examples of these projects include the following:

- Installation or modification of culverts and other stormwater management facilities.
- Flood diversion and storage measures.
- Slope stabilization or grading.
- Flood protection measures for sewer or other utility systems.
- Vegetation management for shoreline stabilization.
- Flood protection and stabilization for roads and bridges.

Non-localized flood risk reduction projects lessen the frequency or severity of flooding and decrease predicted flood damage within an area that is hydraulically linked or connected to a drainage basin that is regional in scale. These projects reduce flood hazards in areas larger than that of localized flood reduction projects. The projects may include the construction, demolition or rehabilitation of dams; the construction or modification of dikes, levees, floodwalls, seawalls, groins, jetties, breakwaters and stabilized sand dunes; and the large-scale channelization of a waterway.

D.2.6. Floodproofing

Dry floodproofing techniques are applied to keep structures dry by sealing the structure to keep floodwaters out. Dry floodproofing of historic residential structures is permissible only when other techniques that would mitigate the Base Flood Elevation may cause the structure to lose its designation as a historic structure. Dry floodproofing projects are eligible for non-residential and historic residential structures under all HMA programs. Wet floodproofing consists of the use of flood-damage-resistant materials and construction techniques to minimize flood damage to areas below the flood protection level of a non-residential structure, which is intentionally allowed to flood. Wet floodproofing projects are eligible for non-residential structures under all HMA programs.

D.2.7. Tsunami Vertical Evacuation

Tsunami vertical evacuation projects are designed to provide immediate life-safety protection in the event of a tsunami, with sufficient height to elevate evacuees above the tsunami inundation depth. This type of project includes retrofitting existing structures, constructing new vertical evacuation structures, or converting natural topographic features to enable vertical evacuation.

D.2.8. Safe Room

Safe room projects are designed and constructed to provide immediate life-safety protection for people in public and private structures from severe wind events, including hurricanes and tornadoes.

For HMA programs, the term “safe room” only applies to structures that meet the criteria in [FEMA P-361](#), *Safe Rooms for Tornadoes and Hurricanes, Fourth Edition* (April 2021), to provide protection from tornadoes and/or hurricanes, including residential and community safe rooms. This type of project includes retrofits of existing facilities or new safe room projects and applies to both sole-use and multiuse facilities.

D.2.9. Wildfire Mitigation

Wildfire mitigation projects mitigate at-risk structures and associated loss of life from the threat of future wildfire through:

- **Defensible space:** Creation of perimeters around homes, structures and critical facilities through the removal or reduction of flammable vegetation.
- **Ignition-resistant building materials:** Application of ignition-resistant techniques and/or non-combustible materials on new and existing homes, structures and critical facilities.
- **Fire suppression systems:** Exterior sprinkler systems to help extinguish flames and prevent the spread of fire to nearby buildings or combustible vegetation.
- **Fuels reduction/vegetation management:** Removal of vegetative fuels proximate to at-risk structures that, if ignited, pose a significant threat to human life and property, especially critical facilities.
- **Post-wildfire flooding prevention and sediment reduction measures:** Preventative measures that protect property at the base of slopes made vulnerable to erosion and/or flooding because of loss of vegetation or changes in soil composition post-wildfire.

D.2.10. Retrofit

Retrofits are modifications to existing structures to reduce or eliminate the risk of future damage and to protect inhabitants. Retrofits can be structural or non-structural and can be done for a range of hazards.

D.2.11. Secondary Power Source

Secondary power sources increase power system resilience and mitigate the impacts of natural hazards while increasing the resilience of critical functions.

The purchase and installation of secondary power sources and related equipment, such as generators or microgrids, are generally eligible if they are cost-effective, contribute to a long-term solution to the problem they are intended to address, and meet all other program eligibility criteria. Additional secondary power sources not listed in the HMA Guide may be eligible and will be reviewed on a case-by-case basis.

D.2.12. Warning Systems

Warning system projects include equipment and systems to warn people about natural hazards such as earthquakes, tornadoes, wildfire, tsunamis and flash floods.

D.2.13. Aquifer Recharge, Storage and Recovery

Aquifer recharge, storage and recovery projects serve primarily as a drought management tool, but they can also be used to reduce flood risk, mitigate saltwater intrusion and restore aquifers that have been subject to overdraft.

D.2.14. Innovative Hazard Mitigation Projects

FEMA may provide assistance for other innovative solutions not specifically outlined in the HMA Guide under HMGP, HMGP Post Fire, BRIC and FMA. These proposed activities will be evaluated on their own merit against program requirements. Eligible projects will be approved on a case-by-case basis.

D.3. Management Costs

Management costs are any indirect costs, any direct administrative costs, and any other administrative expenses associated with the administration of HMA awards and subawards. Management costs are provided under HMGP, HMGP Post Fire, BRIC and FMA. More information on management costs can be found in [Part 13](#).

E. Ineligible Activities

The following list provides examples of activities that are not eligible for HMA:

- Activities that do not reduce the risk to people, structures or infrastructure.
- Activities that are dependent on a contingent action to be effective and/or feasible (i.e., not a stand-alone mitigation activity that solves a problem independently or constitutes a functional portion of a solution).⁷¹
- Projects with the sole purpose of the open space acquisition of unimproved land.⁷²
- Property acquisition projects that do not maintain open space in perpetuity according to the requirements of [44 Code of Federal Regulations \(CFR\) Part 80](#).

⁷¹ [44 CFR § 206.434\(c\)\(4\)](#)

⁷² [44 CFR § 80.11\(b\)](#)

- The cost of any functionality or finishing not directly required for meeting FEMA-approved performance criteria, such as interior or exterior decorative elements and fixtures and floor treatments.
- Projects for which actual physical work, such as groundbreaking, demolition or construction of a raised foundation, has occurred prior to award or final approval, with two exceptions:
 - Properties where private individuals have demolished damaged structures using private assistance or other non-federal assistance prior to application for HMA are eligible for inclusion in HMA project applications if the demolition is not connected to the project.
 - Projects for which demolition and debris removal related to structures proposed for acquisition or mitigation reconstruction has already occurred may be eligible when such activities were initiated or completed under the FEMA Public Assistance program to alleviate a health or safety hazard as a result of a disaster.
- Activities that establish hazard mitigation revolving loan funds.⁷³
- Activities required as a result of negligence or intentional actions that contributed to the conditions to be mitigated; activities intended to remedy a code violation; or the reimbursement of legal obligations, such as those imposed by a legal settlement, court order or state law.
- All projects located in Coastal Barrier Resources System units, other than property acquisition for open space or nature-based stabilization projects provided they qualify for one of the exceptions in [Section 6 of the Coastal Barrier Resources Act](#).⁷⁴ For more information, refer to [Part 12](#).
- Projects located in Otherwise Protected Areas that require flood insurance after project completion.
- Activities associated with facilities or land owned by another federal entity where the specific authority relating to the activities lies with another federal entity.
- Retrofitting facilities primarily used for religious purposes, such as places of worship (or other projects that solely benefit religious organizations). However, a place of worship may be included in a property acquisition and structure demolition or relocation project provided that the project benefits the entire community.

⁷³ Public Law 116-284 (Jan. 1, 2021) created Section 205 of the Stafford Act ([42 U.S.C. § 5135](#)), authorizing the creation of the Safeguarding Tomorrow through Ongoing Risk Mitigation Revolving Loan Fund (Safeguarding Tomorrow RLF) program. The Safeguarding Tomorrow RLF program provides capitalization grants to states, eligible federally recognized tribes, territories and the District of Columbia to establish revolving loan funds to provide hazard mitigation assistance to local governments to reduce risks from natural hazards and disasters. Refer to the [Safeguarding Tomorrow Revolving Loan Fund Program](#) webpage for more information.

⁷⁴ [16 United States Code \(U.S.C.\) § 3505](#)

- Activities that only address manmade hazards.
- Landscaping for ornamentation (e.g., trees, shrubs).
- Site remediation of hazardous materials (except for eligible activities, such as the abatement of asbestos and/or lead-based paint and the removal of household hazardous wastes for disposal at an approved landfill).
- Projects that address water quality improvement without mitigating hazards to water quality infrastructure.
- Projects that primarily address ecological or agricultural issues.
- Forest management.
- Prescribed burning or clear-cutting.
- Creation and maintenance of access roads or staging areas for wildfire response equipment.
- Creation and maintenance of fire breaks.
- Irrigation systems.
- Preparedness and response measures and equipment. (e.g., construction of emergency operations centers and fire stations; installation or purchase of sandbags, bladders, geotubes, and interoperable communications equipment; development/offering of response training).
- Projects that, without an increase in the level of protection, address the operation, deferred or future maintenance, rehabilitation, restoration or replacement of existing structures, facilities or infrastructure (e.g., dredging; debris removal; replacement of obsolete utility systems or bridges; or maintenance/rehabilitation of facilities, including dams and other flood risk reduction structures).
- Activities that address unmet needs from a disaster that are not related to hazard mitigation.
- Studies not directly related to the design and implementation of a proposed hazard mitigation project.
- Activities excluded from funding because of duplication of programs or duplication of benefits. For more information refer to [Part 4.J](#).
- Air quality and extreme temperature retrofits as a stand-alone project type.

FEMA may, at its discretion, choose not to fund activities subject to ongoing litigation if such litigation may affect the eligibility of the activity or may substantially delay implementation of the activity. All

projects must also comply with any additional project-specific guidance provided in [Part 11](#) or [Part 12](#).

F. Technical Feasibility and Effectiveness

Subapplicants will have to document that their projects are feasible and effective at mitigating the risks for which the project was designed.⁷⁵ The feasibility of a project is demonstrated through conformance with accepted engineering practices, established codes, standards, modeling techniques or best practices. In the project narrative, the subapplicant may need to demonstrate the engineering practices, established codes and standards, and modeling applicable to the project.

Effective hazard mitigation measures funded under HMA should provide a long-term or permanent solution and should consider weather conditions, development, settlement and demographic patterns, as appropriate. Considering technical feasibility and effectiveness during the scoping process facilitates project development.

For specific feasibility and effectiveness requirements by project type, refer to [Part 12](#).

F.1. Hazard Mitigation Assistance Efficiencies

FEMA accepts the engineering design for a project if a licensed professional engineer (or other design professional licensed by the state to practice in the discipline being certified by the individual) certifies that the design meets the appropriate code or industry design and construction standards. FEMA will accept the certified engineering design in lieu of the FEMA comprehensive technical feasibility review. For example, if a licensed professional engineer certifies that the design of a community safe room project meets or exceeds FEMA P-361 criteria for design and construction, FEMA will not perform a detailed design review to ensure compliance with the criteria.

G. Cost Effectiveness

By statute and regulations, hazard mitigation activities under HMGP, HMGP Post Fire, BRIC and FMA must be cost-effective; specific requirements for each program can be found in [Part 10](#). FEMA generally assesses the cost effectiveness of hazard mitigation projects through a BCA—a quantitative analysis used to assess the cost effectiveness of a hazard mitigation measure by comparing the project's avoided future damage to the costs over the project lifetime. Considering cost effectiveness at the earliest possible stage of the decision-making process can facilitate project scoping and improve project design. For more information on cost effectiveness, refer to [Part 5](#).

⁷⁵ [44 CFR § 206.434\(c\)](#)

H. Environmental and Historic Preservation Requirements

HMA programs, and assistance awarded pursuant to these programs, must conform to the relevant environmental FEMA and DHS directives and instructions, and with all applicable EHP laws, regulations and executive orders. This includes but is not limited to the following:

- [National Environmental Policy Act](#).⁷⁶
- [National Historic Preservation Act](#).⁷⁷
- [Endangered Species Act](#).⁷⁸
- [Executive Order \(EO\) 11988](#) on *Floodplain Management* (May 24, 1977).
- [EO 11990](#) on *Protection of Wetlands* (May 24, 1977).

To ensure compliance with all EHP laws, regulations and executive orders, additional EHP conditions may be included in the award agreement.

FEMA has the responsibility to ensure a project complies with federal laws, regulations and executive orders, which includes coordination with other federal and state agencies and consultation with tribal governments. Applicants and subapplicants can assist FEMA by identifying EHP reviews previously completed by other agencies, gathering data, and reaching out to stakeholders and regulatory agencies for pertinent information. If EHP issues are identified, the applicant and subapplicant should initiate coordination with the relevant federal and state agencies as early in the project planning stages as possible to address any potential EHP issues associated with proposed activities. This coordination does not substitute for, and shall not be interpreted to mean, formal consultation has occurred between FEMA and the applicable federal/state agency or tribal government.

Below is a general summary of what FEMA will do during the EHP compliance review process before a federal award may be made:

- Evaluate any potential impacts to EHP resources and provide the required information and documentation to identify the impact on these resources.
- Complete any required consultation and/or coordination with the appropriate agencies (e.g., the state/tribal Historic Preservation Office, the U.S. Fish and Wildlife Service and the National

⁷⁶ Public Law 91-190 (Jan. 1, 1970), [42 U.S.C. § 4321](#)

⁷⁷ Public Law 89-665 (Oct. 15, 1966), [36 CFR Part 800](#)

⁷⁸ Public Law 93-205 (Dec. 28, 1973), [16 U.S.C. § 1531](#)

Marine Fisheries Service) or tribal governments to evaluate potential effects of the proposed project and to identify any measures necessary to avoid or minimize these effects.

- Complete an evaluation of, and document alternatives to, the proposed action that will avoid or minimize these impacts, including consideration of the environmental impact of taking no action.
- Demonstrate that the project will incorporate any EHP mitigation measures required to mitigate the adverse impacts on EHP resources.
- Ensure all EHP projects costs, including the costs of known measures to treat any adverse effect(s), are reflected in the project budget estimate.

EHP compliance considers and documents the following resource types or actions: biological, water, coastal, pollution control, debris management, socioeconomic, historical and cultural. Applicants and subapplicants may apply for projects that are a functional portion of a long-term solution. If this approach is taken, each project must be able to function independently and meet all HMA project eligibility requirements, EHP compliance included. Applicants must include EHP reviews, surveys or studies if previously completed as part of the planning process to help FEMA assess the proposed project with their application. To further aid the EHP review, other related projects may be assessed.

FEMA is responsible for reviewing connected actions associated with a proposed project, even if the agency is not funding the connected action. Applicants and subapplicants must include information on actions connected to the proposed project in the application even if FEMA is not funding the connected action.

Actions are connected if they:

- Automatically trigger other actions that may require environmental impact statements.
- Cannot or will not proceed unless other actions are taken previously or simultaneously.
- Are interdependent parts of a larger action and depend on the larger action for their justification.⁷⁹

Assistance will not be awarded and the applicant/subapplicant may not initiate the project, other than planning or preparatory work not involving construction or alteration of the land, until FEMA has completed this review and determines that the project, when completed, will comply with all EHP laws, regulations and executive orders. FEMA developed guidance to assist in completing the EHP information section of a project subapplication, including online training and information about historic preservation. Technical assistance is also available through the FEMA regional offices via email at ehphelpline@fema.dhs.gov.

⁷⁹ [40 CFR 1501.9\(e\)\(1\)](#)

H.1. Environmental and Historic Preservation Scoping Considerations

By taking the proposed project's impacts to the human environment into account in the decision-making process, EHP requirements ensure that reasonable alternatives are considered.

Subapplicants can leverage EHP requirements in the scoping process to develop resilient hazard mitigation projects and avoid, minimize and mitigate any potential adverse impacts of proposed hazard mitigation projects on natural and cultural resources.

Many EHP laws, regulations and executive orders require a decision-making process that considers alternatives and impacts to natural and cultural resources during project scoping. Early consideration of EHP resources in the project scoping phase can reduce additional requests for information and may help streamline the EHP compliance review process, thereby reducing time between subapplication submittal and project implementation.

For example, some key EHP considerations include:

- Whether the proposed project is in an area with threatened and endangered species or in the designated critical habitat of the threatened and endangered species.
- Whether the proposed project might impact historic or cultural resources.
- Whether the proposed project will involve work in water, floodplains, wetlands or coastal zones.

If the project may result in adverse impacts to natural and cultural resources, then EHP laws, regulations or executive orders may:

- Have time and cost implications on a project.
- Include additional award conditions (such as permits or timing restrictions) imposed by FEMA.
- Require the applicant or subapplicant to consider alternatives, identify alternate locations, and, as necessary, modify the project.
- Require hazard mitigation measures to resolve adverse effects or impacts resulting from the project.

By considering natural and cultural resources in the project scoping phase, applicants and subapplicants may be able to resolve issues of concern earlier in the process, prior to significant commitment of time and resources. Refer to [Part 4](#) for an overview of incorporating the EHP and the [National Environmental Policy Act](#) process in project scoping.

Early consideration of natural and cultural resources in the project scoping process can also help develop more resilient hazard mitigation projects and advance environmental stewardship in communities. Applicants and subapplicants should consider those resources to identify opportunities for the design of projects to enhance, restore or preserve natural and cultural resources and to provide additional ecosystem services to a community. This approach can lead to better hazard

mitigation outcomes. For example, hazard mitigation project types that create open space, such as property acquisitions and innovative drought and flood mitigation activities, can also provide conservation benefits to species and habitats. Early consideration of cultural resources can help identify hazard mitigation approaches that preserve historic resources from hazards without adversely affecting their historic, aesthetic or cultural value.

During project scoping, applicants and subapplicants should research prior activities close to the proposed project location to identify if EHP review has been undertaken by federal, state or local commissions or agencies for previously completed projects, gathering EHP data, and reaching out to stakeholders and regulatory agencies for pertinent information. Applicants and subapplicants should use the EHP Checklist (refer to [Table 5](#)) and the FEMA “[Environmental & Historic Preservation Grant Preparation Resources](#)” webpage to help identify EHP issues and consider natural and cultural resources when scoping a project and developing a project application. Advance assistance, pre-award costs, project phasing and technical assistance are available to aid in the consideration of EHP requirements in the early stages of subapplication development and EHP compliance scoping. For more information, refer to [Part 6](#).

To help applicants and subapplicants develop project scopes, federal and state regulatory agencies may offer pre-application consultation meetings to provide informal discussions about proposed activities, alternatives and measures for reducing impacts. These agencies may include but are not limited to the U.S. Fish and Wildlife Service and the National Marine Fisheries Service for impacts to federally listed threatened and endangered species; U.S. Fish and Wildlife Service for impacts to Coastal Barrier Resource System zones and bald or golden eagles; National Marine Fisheries Service for impacts to essential fish habitat or marine mammals; and the U.S. Army Corps of Engineers (USACE) for projects in navigable waters or that involve dredging, filling or discharge in waters of the United States (including wetlands). State and tribal agencies may include the departments of environmental protection, historic preservation offices, and local floodplain administrators.

Public engagement is an integral part of project development and EHP compliance reviews and is required by many EHP laws, regulations and executive orders. Public input can help identify potential impacts to natural and cultural resources. Public input can also help shape project scopes to provide better hazard mitigation outcomes.

Subapplicants may assist FEMA in planning public engagement strategies and with publishing public notices on community websites, in newspapers or on social media. In their subapplications, subapplicants should describe any existing or planned public engagement activities and feedback received from the public regarding the project.

Information Gathering and Formal EHP Review Process

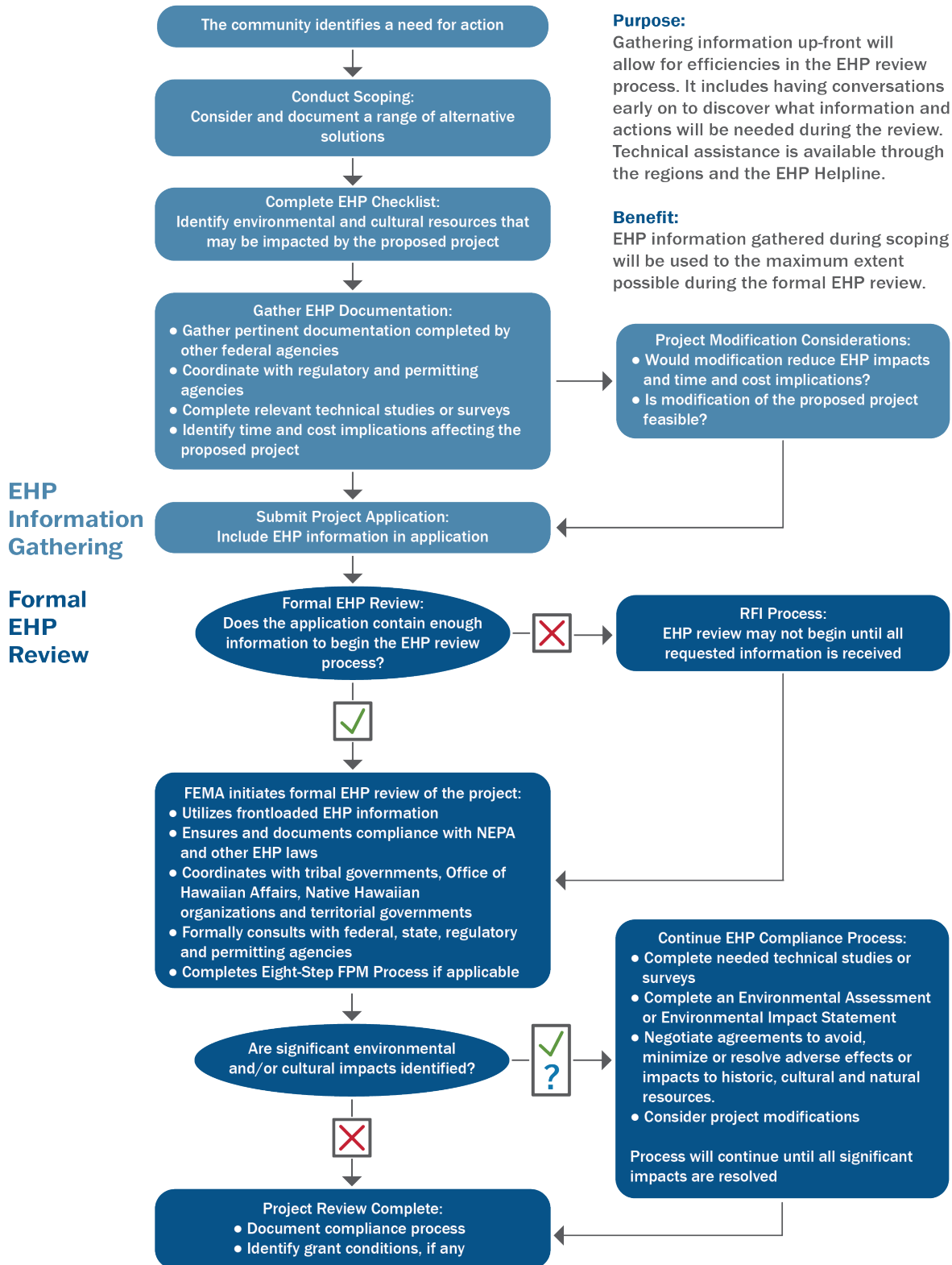


Figure 4. EHP Information Gathering and the Formal Review Process

H.2. Unified Federal Review

In some cases, HMA may approve funding for a portion of a larger project that involves other FEMA programs (e.g., Public Assistance, Individual Assistance); other federal agencies (e.g., USACE); or state or local entities and agencies with delegated federal authority (e.g., delegation from the Department of Housing and Urban Development or the Federal Highway Administration).

To help streamline EHP review of projects with multiple funding streams, the [Sandy Recovery Improvement Act of 2013](#)⁸⁰ added Section 429 to the [Stafford Act](#),⁸¹ which directed the development of an expedited and unified interagency EHP review process, also known as Unified Federal Review, to ensure federal agencies coordinate EHP compliance activities. When two or more federal agencies are involved with a project, or if any EHP coordination occurred prior to FEMA's involvement, relevant environmental and historic or cultural resource considerations may have already been identified and addressed. FEMA may be able to use or adopt EHP documentation from another federal agency, if that documentation addresses the scope of the FEMA-approved activity, and the agency verifies it meets EHP compliance requirements.

The purpose of the Unified Federal Review process is to improve federal decision-making to allow for more timely and planned processes that yield better outcomes for communities and the environment when federal funds and permits are used for disaster recovery projects. The Unified Federal Review process does not change EHP requirements under existing federal law. Instead, it identifies ways to use existing efficiencies, with new tools and mechanisms, to expedite the EHP review of proposed projects involving multiple federal agencies and avoid duplication of effort.

Projects proposed for FEMA funding that involve more than one federal agency and can require significant interagency collaboration and stakeholder engagement. Federal agencies use the Unified Federal Review process to address the coordination challenges when multiple have touchpoints for connected or dependent projects. The Unified Federal Review process recognizes the important role of federal agencies, states, tribes, localities and the public in the EHP review process. Applicants and subapplicants should identify for FEMA the other federal agency or agencies from which they are seeking funding or permitting, as well as provide any relevant information to help streamline and inform the EHP review.

These efforts include identifying and addressing gaps and inconsistencies within federal regulations, policies and programs related to natural and cultural resource considerations, which result in the following outcomes:

- Faster delivery of federal assistance to rebuild following a disaster.
- Transparent EHP review process for disaster recovery projects and what may be required before a federal agency may award assistance.

⁸⁰ Public Law 113-2 (Jan. 29, 2013), [42 U.S.C. § 5121](#)

⁸¹ [42 U.S.C. § 5189g](#)

- Streamlined application processes for federal assistance, in which federal agencies accept data in multiple formats so duplicate EHP information is no longer needed.
- Up-to-date contact information for federal and state agencies that can provide federal assistance and relevant information.

The Unified Federal Review process may assist a jurisdiction’s project review if any of the following statements is true:

- Other federal resource/regulatory agencies are involved.⁸²
- Other federal funding or actions are involved.
- The proposed project is covered by existing analyses or agreements.

To learn more about the Unified Federal Review process and how it may apply to a project, consult the [Practitioner’s Guide to Unified Federal Review](#), contact the Regional Unified Federal Review Coordinator or send an email to federal-unified-review@fema.dhs.gov.

H.3. Coastal Barrier Resources System Eligibility Requirements

In accordance with the Coastal Barrier Resources Act,⁸³ HMA programs may assist projects in Otherwise Protected Areas if they do not require flood insurance after project completion.⁸⁴ Projects in a John H. Chafee Coastal Barrier Resources System (CBRS) unit are eligible only if they qualify for one of the exceptions in Section 6 of the Coastal Barrier Resources Act.⁸⁵ That is, projects are eligible if they are consistent with the purposes of the Coastal Barrier Resources Act and qualify as projects for the study, management, protection and enhancement of fish and wildlife resources and habitats.⁸⁶ All projects that occur in or adjacent to CBRS units must meet one of the Coastal Barrier Resources Act exceptions and require that FEMA consult with the appropriate U.S. Fish and Wildlife Service Ecological Services field office. Proposed actions carried out within or adjacent to an Otherwise Protected Area do not require consultation with the U.S. Fish and Wildlife Service.

⁸² Other federal resources and regulatory agencies may be found in the multiagency [Memorandum of Understanding Establishing the Unified Federal Environmental and Historic Preservation Review Process for Disaster Recovery Projects](#) (2014).

⁸³ Public Law 97-348 (Oct. 18, 1982), as amended. To remove federal incentives to develop coastal areas, the Coastal Barrier Resources Act designated relatively undeveloped land along the Atlantic and Gulf Coast as part of the John H. Chafee Coastal Barrier Resources System (CBRS) and made these areas ineligible for most new federal assistance.

⁸⁴ Congress reauthorized the Coastal Barrier Resources Act with the Coastal Barrier Improvement Act of 1990 (Public Law 101-591 [Nov. 16, 1990]), expanding the CBRS to include undeveloped coastal barriers along the Florida Keys, Great Lakes, Puerto Rico and the U.S. Virgin Islands. It also added a new category of undeveloped barriers called [Otherwise Protected Areas](#). Otherwise Protected Areas consist of conservation or recreation areas such as national wildlife refuges, state and national parks, local conservation areas and private conservation areas, although they may also contain private areas not for conservation.

⁸⁵ [16 United States Code \(U.S.C.\) § 3505](#)

⁸⁶ [16 U.S.C. § 3505\(a\)\(6\)\(A\)](#), [44 CFR § 206.345](#)

H.4. Floodplain Management and Protection of Wetlands

All activities assisted by HMA programs must conform to FEMA regulations on floodplain management and protection of wetlands in [44 CFR Part 9](#) and the eight-step decision-making process (refer to [Figure 5](#)), which is designed in accordance with EO 11988, as amended, and EO 11990. Applicants and subapplicants must review all proposed actions to determine whether they are in the floodplain or a wetland. FEMA must complete an eight-step decision-making process for proposed actions located in the 1% annual chance floodplain (or 0.2% annual chance floodplain for critical actions) and proposed actions that have the potential to affect or be affected by a floodplain or wetland (refer to [Figure 5](#)).

Proposed actions located in the 1% annual chance floodplain (or 0.2% annual chance floodplain for critical actions), and proposed actions that have the potential to affect or be affected by a floodplain or wetland, will only be eligible for an award or subaward if the applicant or subapplicant demonstrates that there is no practicable alternative to locating the action in a floodplain or wetland in accordance with [44 CFR §§ 9.9-11](#). FEMA must consider alternative locations to determine whether the floodplain or wetland is the only practicable location for that action. Applicants and subapplicants must document alternatives considered as part of their scoping process to assist FEMA in facilitating this decision-making process. If the floodplain or wetland is the only practicable location, the applicant/subapplicant must avoid or minimize adverse impacts to the floodplain or wetland.

A critical action is an action for which even a slight chance of flooding poses too great of a risk. It may or may not be associated with a critical facility.⁸⁷ FEMA is responsible for determining if an action is a critical action. If FEMA identifies a critical action, FEMA must evaluate potential harm to the action from the 0.2% annual chance flood.

Critical Action Definition

Critical actions are defined in [44 CFR § 9.4](#), which includes examples of actions for which even a slight chance of flooding is too great. If an action is not specified in [44 CFR Part 9](#), FEMA uses the U.S. Water Resource Council Floodplain Management Guidelines for Implementing EO 11988, amended by EO 13690, and the following series of questions about the subject structure or facility to determine whether a proposed action is deemed a critical action:

- If flooded, would the proposed action create an added dimension to the disaster, such as for liquefied natural gas terminals and facilities producing and storing highly volatile, toxic or water-reactive materials?

⁸⁷ Critical actions and critical facilities are not used interchangeably in the regulation but have specific meanings. Critical facilities are structures and institutions that are deemed by the local community and other jurisdictions as critical to the continuity of the community before, during and after an event. Although the affected jurisdiction has the primary responsibility for determining what structures and institutions are critical facilities, FEMA reserves the right to make a final determination as needed to support the review and approval of an HMA project application.

- Given the flood warning lead-time available, would the occupants of buildings such as hospitals, schools and nursing homes be sufficiently mobile to avoid loss of life and injury?
- Would essential and irreplaceable records, utilities and/or emergency services be lost or become inoperative if flooded?

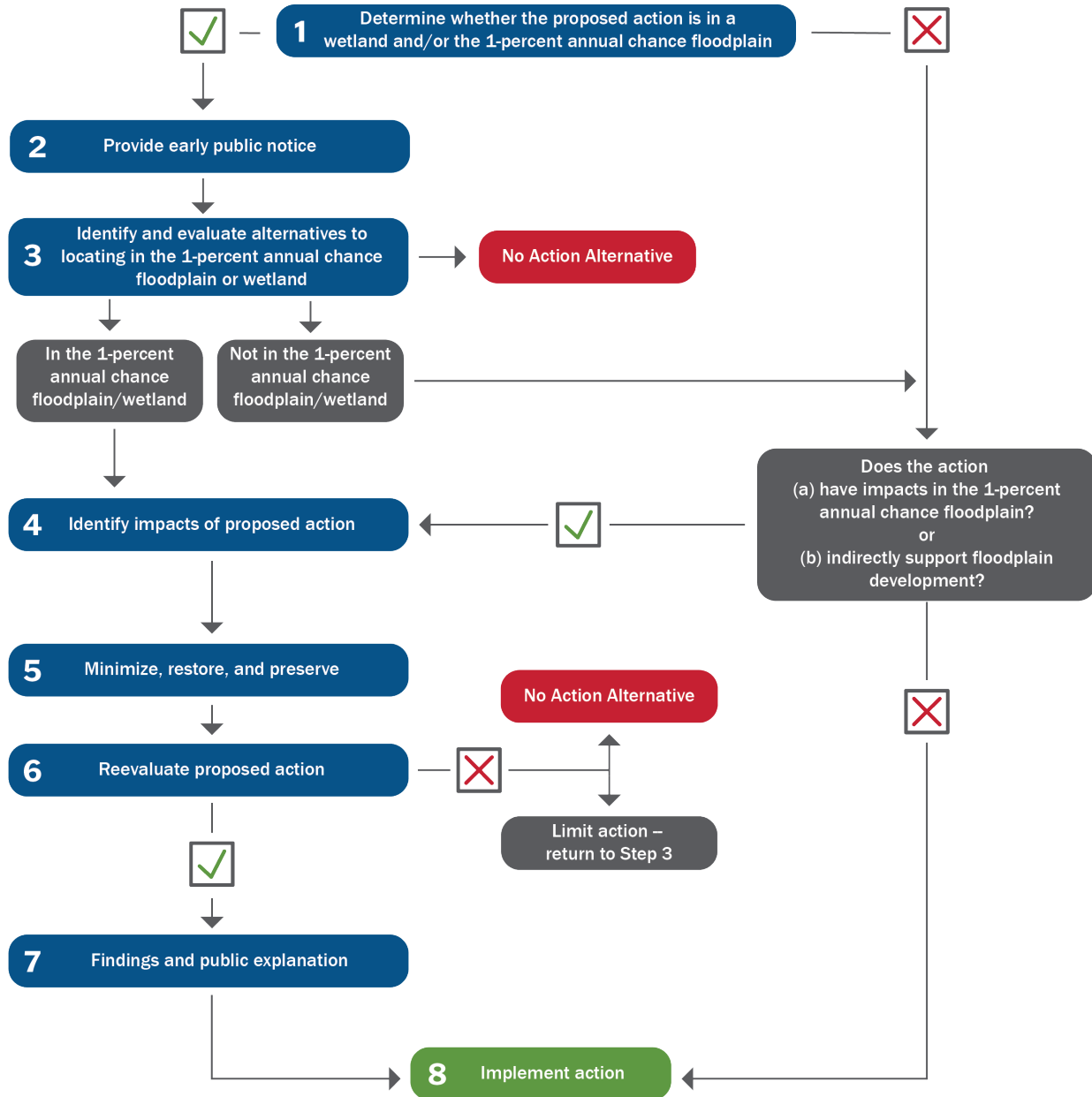
If any of the answers are “yes,” then the proposed action is a critical action.

HMA cannot be used to assist new construction or substantial improvements in a floodway or new construction in a Coastal High Hazard Area unless it constitutes a functionally dependent use or facilitates an open space use.⁸⁸ Substantial improvement is defined as any reconstruction, rehabilitation, addition or other improvement of a structure, the cost of which equals or exceeds 50% of the market value of the structure before the start of construction of the improvement.⁸⁹

⁸⁸ [44 CFR § 9.11\(d\)](#)

⁸⁹ [44 CFR § 9.4](#)

Floodplain Management Decision-Making Process



Note: Substitute “0.2-percent annual chance floodplain” for “1-percent annual chance floodplain” for critical actions in all eight steps.

Figure 5. Eight-Step Decision-Making Process for Floodplain Management Considerations and Protection of Wetlands

I. Flood Insurance Requirements

HMA eligibility is related to the National Flood Insurance Program (NFIP) as follows:

- **Applicant and subapplicant eligibility:** States, state agencies, tribal governments and communities participating in the NFIP may apply for FMA planning and project awards and subawards and associated management costs. Communities withdrawn, suspended, on probation or not participating in the NFIP are not eligible to apply for FMA. Certain political subdivisions (i.e., regional flood control districts or county governments) may apply and act as subrecipients if they are part of a community that is participating in the NFIP where the political subdivision provides zoning and building code enforcement or planning and community development professional services for that community.
- **Hazard mitigation project eligibility:** HMGP, HMGP Post Fire and BRIC subapplications for mitigation projects sited within a SFHA are eligible only if the jurisdiction in which the project is located is participating in the NFIP. There is no NFIP participation requirement for HMGP, HMGP Post Fire and BRIC subapplications for hazard mitigation projects located outside of the SFHA.
- **Mitigation planning eligibility:** There are no NFIP participation requirements for HMGP, HMGP Post Fire and BRIC hazard mitigation planning subapplications. However, under FMA, the subapplicant and the communities within the planning scope must be participating in the NFIP to be eligible for planning assistance.
- **Property eligibility:** Properties included in a project subapplication for FMA assistance must have all structures NFIP-insured at the time of application start date.⁹⁰ Flood insurance must be maintained for the life of the structure regardless of whether the property is subsequently removed from the SFHA.
- **Post-award structure requirements:** Under HMGP, HMGP Post Fire and BRIC, structures in the SFHA at the time of project completion must maintain flood insurance after the completion of the hazard mitigation project for the life of the structure. All structures inside and outside of the SFHA receiving assistance through FMA for projects impacting individual structures must maintain flood insurance after the completion of the mitigation project for the life of the structure.

I.1. Flood Insurance Conditions

For structures that must maintain flood insurance after the completion of the hazard mitigation project for the life of the structure, the coverage must be (1) an amount at least equal to the project cost or (2) the maximum limit of coverage made available with respect to the particular property, whichever is less.⁹¹ The maximum limit of coverage made available is defined as the replacement cost value of the structure up to \$250,000 for residential and \$500,000 for non-residential. Insurance coverage on the property must be maintained during the life of the property regardless of

⁹⁰ [44 CFR § 77.6\(a\)\(2\)](#)

⁹¹ [42 U.S.C. § 4012a\(a\)](#), [44 CFR § 77.6\(a\)\(2\)](#)

the transfer of ownership of such property. Insurance must also be maintained regardless of whether the structure is subsequently removed from the SFHA.

The subrecipient (or property owner) must legally record, with the county or appropriate jurisdiction's land records, a notice that includes the name of the current property owner (including book/page reference to record of current title, if readily available), a legal description of the property and the following notice of flood insurance requirements:

This property has received federal Hazard Mitigation Assistance. Federal law, regulations, and policy require that flood insurance coverage on this structure must be maintained during the life of the property regardless of transfer of ownership of such property [for HMGP, HMGP Post Fire and BRIC, refer to 42 U.S.C. §4012a. For FMA, see 44 CFR 77.6(a)(2)]. Failure to maintain flood insurance coverage will result in the property owner being ineligible for future Hazard Mitigation Assistance awards. The property owner is also required to maintain this property in accordance with the floodplain management criteria of 44 CFR § 60.3 and any city/county ordinance.

Applicants/subapplicants must ensure that these requirements are met by requesting that the participating property owner(s) sign an [Acknowledgement of Conditions for Properties Using FEMA Hazard Mitigation Assistance \(FF-206-FY-22-158\)](#) form and providing the form to FEMA prior to award or final approval. This form is available on the FEMA website or can be provided by the appropriate FEMA regional office. Properties that do not meet these requirements will not be eligible to receive assistance under the HMA programs. Additionally, failure to maintain flood insurance coverage will result in the property owner not being eligible for future HMA awards.

If an approved HMA project affects the accuracy of an applicable Flood Insurance Rate Map or requires a map amendment to meet a locally adopted floodplain management ordinance, the subrecipient is responsible for ensuring the appropriate map amendments or revisions are made. Costs associated with these map amendments are to be identified in the budget section of a subaward application and may be eligible costs under the HMA programs.

J. Cost Eligibility

Costs are evaluated both during the application review stage as well as when recipients submit claims and during monitoring activities completed by FEMA. To be eligible, costs must meet the criteria in 2 CFR Part 200, Subpart E – Cost Principles:⁹²

- Be necessary and reasonable to accomplish the work properly and efficiently and be allocable according to the cost principles.

⁹² [2 CFR § 200.403](#)

- Conform to any limitations or exclusion set forth in the award. Such limits can be statutory or policy based and are typically set forth in the award or subaward terms that include the program’s NOFO announcement by reference.
- Be consistent with the recipient and subrecipient policies and procedures governing the expenditures and activities that are not charged to federal awards. Recipients and subrecipients are not allowed to charge costs to federal awards if those costs are prohibited by their own policies and procedures.
- Be consistent under the recipient and subrecipient policies and practices with respect to classifying them as a direct or indirect cost. For example, recipients may only charge costs to the federal award as indirect costs and the recipient consistently records those same costs as indirect costs when no federal award is involved or is being charged.
- Be determined in accordance with generally accepted accounting principles, as applicable to the recipient and subrecipient.
- Not be federally financed as part of the recipient’s cost share.
- Be adequately documented.
- Be incurred during the approved period of performance. However, management costs for closeout may be incurred until the due date of any final reports.

In addition, eligible costs must be reduced by applicable credits,⁹³ such as duplication of benefits (e.g., insurance claims)⁹⁴ and program income.⁹⁵

When needed, FEMA will use the guidance in [2 CFR §§ 200.420-476](#) to evaluate the eligibility of specific items of cost. This section of the federal financial assistance regulations provides eligibility criteria for a wide range of potential costs (e.g., conferences, fringe benefits, professional services, organizational costs).

J.1. Reasonable Costs Analysis

A cost is reasonable if it does not exceed an amount that a prudent person would incur under the circumstances prevailing when the decision was made to incur the cost.⁹⁶

In conducting a reasonable cost analysis, FEMA performs a preliminary review of the documentation to assess the complexity of the activity and the expertise required to complete the analysis. If specialized expertise is required, a subject matter expert with the appropriate specialized skills,

⁹³ [Stafford Act § 312](#) and [2 CFR § 200.406](#)

⁹⁴ [Stafford Act § 312](#)

⁹⁵ [Stafford Act § 312](#)

⁹⁶ [2 CFR § 200.404](#)

knowledge, experience or capability in the appropriate field such as engineering, architecture or cost estimating conducts the analysis.

Considerations include:

- Whether the cost is generally recognized as ordinary and necessary for the recipient's or subrecipient's operation or the proper and efficient performance of the award.
- Restraints or requirements imposed by sound business practices, arm's-length bargaining, applicable laws and regulations, and terms and conditions of the award.
- Market prices for comparable costs for the geographic area.
- Whether the recipient or subrecipient acted with prudence in the circumstances concerning its responsibilities.
- Whether the cost represents a deviation from the recipient's or subrecipient's established written policies and procedures for incurring costs.⁹⁷

FEMA determines reasonableness by evaluating:

- Whether the skill level and level of effort are necessary to complete the required activity. If the type of employee or skill level is not appropriate for the specific task, FEMA limits HMA to a rate based on the appropriate employee type or skill level. For complex activities, staff with a higher level of technical proficiency and experience may be appropriate.
- Whether the individuals concerned acted with prudence under the circumstances considering their responsibilities to the recipient or subrecipient, its employees, its students or membership, the public and the federal government.⁹⁸
- Whether the recipient or subrecipient complied with procurement requirements ([Part 4.L.4](#)). FEMA generally considers contract costs reasonable when the recipient or subrecipient adheres to full and open competition under applicable federal procurement requirements, and the scope of services or work in the contract and level of effort is consistent with respect to the eligible scope of work. FEMA evaluates reasonableness when price competition is lacking or when the selection was noncompliant with the applicable procurement under award requirements even though there may have been price competition.
- Whether the recipient or subrecipient selected the lowest responsible bidder based on the selection criteria. If the recipient or subrecipient selected a contractor with a higher bid than others, it must substantiate its selection based on the selection criteria set forth in its request for proposal.

⁹⁷ [2 CFR § 200.404](#)

⁹⁸ [2 CFR § 200.404\(d\)](#)

FEMA generally considers the recipient's or subrecipient's own labor, equipment and supply costs as reasonable provided the costs are consistent with the recipient's or subrecipient's policies including but not limited to pay rates, labor policies and cost schedules used during its normal operations.

The cost or price analysis is one component of documentation that FEMA may review as part of its evaluation of reasonable costs. If the recipient or subrecipient does not submit a cost or price analysis, FEMA may evaluate the elements that would have been part of such analysis. The recipient or subrecipient may need to provide this information if it is not included in the documentation submitted.

FEMA will evaluate whether costs are comparable to the current market price for similar goods or services in the same geographical area.⁹⁹ FEMA makes its determination based on one or more of the following:

- Historical documentation (previous contracts, invoices or other documentation). FEMA may compare costs to the recipient's or subrecipient's historical costs for similar scope of work or items.
- Average costs in the area.
- Weighted average unit pricing. FEMA may determine the average costs in the area using weighted average unit prices. These consist of the average costs of historical bid tabulations and related specifications from competitive bid pricing solicitations respective to the area and usually includes all factors required to bid on public works projects, such as performance bonds, bid bonds, overhead and profit, and general conditions. The recipient or subrecipient or respective state, territorial or regional agency, such as the state's Department of Transportation may provide weighted average unit pricing and related specifications for FEMA's review.
- Other recipient or subrecipient activity costs. FEMA may compare the costs with other recipient or subrecipient activities of similar scope of work and similar circumstances.
- Published unit costs from national cost-estimating databases. When using this method, FEMA confirms that the cost publication is current and the appropriate locality adjustment factor is applied.
- Industry cost estimating resources. When appropriate local data cannot be developed or obtained, FEMA uses industry-standard construction cost-estimating resources to prepare an estimate against which to evaluate the reasonableness of the recipient's or subrecipient's actual costs. These costing methods include but may not be limited to RSMeans, BNi Costbooks, Marshall and Swift, and Sweet's Unit Cost Guide, which are widely accepted in the industry and available for use nationwide.

⁹⁹ [2 CFR § 200.404\(c\)](#)

- Federal, state or territorial unit costs. When industry-standard construction cost estimating resources do not provide work items that are appropriate or applicable to the construction activities required to complete the project, FEMA considers local cost data from other federal agencies or state or territorial agencies responsible for the construction of similar facilities in or near the locality.

When a reasonable cost analysis has been conducted and costs appear high for an activity, FEMA reviews the recipient's or subrecipient's justification in the budget narrative, to determine whether any additional factors justify the higher cost as a reasonable amount.

The recipient or subrecipient is responsible for providing documentation to demonstrate its claimed costs are reasonable. Documentation may include, but is not limited to:

- Documentation showing current market price for similar goods or services, such as:
 - Historical documentation.
 - Average costs in the area.
 - Published unit costs from national cost estimating databases.
- Documentation supporting necessity of unique services or extraordinary level of effort.
- Documentation supporting challenging circumstances, such as news stories or supply chain vendor reports.

If FEMA determines any of the costs to be unreasonable based on its evaluation after completing the evaluation and ensuring that all appropriate costs and factors are included as described above, FEMA may disallow all or part of the costs by adjusting eligible assistance to an amount it determines to be reasonable. When determining the reasonable amount, FEMA may use the least-cost alternative, the lowest bid received by the recipient or subrecipient, or the pricing of another recipient's or subrecipient's properly procured and selected contractor.

K. Cost Share

Under the HMA programs, the total cost to implement approved hazard mitigation activities is generally assisted by a combination of federal and non-federal sources. Cost share means the portion of activity costs not paid by federal assistance.¹⁰⁰ Both the federal and non-federal cost shares must be for eligible costs used in direct support of the approved activities in the HMA Guide and the award. Contributions of cash donated or third-party in-kind services, materials or any combination thereof may be accepted as part of the non-federal cost share.

¹⁰⁰ [2 CFR § 200.1](#)

FEMA administers cost share requirements consistent with [2 CFR § 200.1](#), [2 CFR § 200.306](#) and [2 CFR § 200.434](#). To meet cost share requirements, the non-federal contributions must be verifiable from the subrecipient's records; reasonable, allowable, allocable and necessary under the federal program; and compliant with all federal requirements and regulations.

In general, HMA may be used to pay up to 75% of the eligible activity costs.¹⁰¹ The remaining 25% of eligible activity costs are derived from non-federal sources. Exceptions to the 75% federal and 25% non-federal share are as follows:

- HMGP and HMGP Post Fire: FEMA provides 100% cost share for management costs.
- BRIC:
 - Small impoverished communities may be eligible for up to a 90% federal cost share. For information about small impoverished communities, refer to [Part 10](#).
 - FEMA provides 100% cost share for management costs.
- FMA:
 - FEMA may contribute up to 100% federal cost share for severe repetitive loss structures.¹⁰²
 - FEMA may contribute up to 90% federal cost share for repetitive loss structures.
 - FEMA provides management costs according to the federal cost share of the corresponding project(s).

For BRIC and FMA, the appropriate year's NOFO may contain additional information about cost share availability.

Structures with different federal cost share can be submitted in a single project subapplication. The overall project federal cost share documented in the cost share section of the project subapplication must reflect the combined federal cost share of the structures.

For Insular areas, including American Samoa, Guam, the Northern Mariana Islands and the U.S. Virgin Islands:¹⁰³

- FEMA automatically waives the non-federal cost share when the non-federal cost share for the entire award is less than \$200,000 and not an individual subaward.

¹⁰¹ For HMGP refer to [42 U.S.C. § 5170c\(a\)](#) and [44 CFR § 206.432\(c\)](#); for BRIC refer to [42 U.S.C. § 5133\(h\)](#); for FMA refer to [42 U.S.C. § 4104c\(d\)](#) and [44 CFR § 77.4\(b\)\(3\)](#)

¹⁰² [44 CFR § 77.4\(b\)\(1\)](#)

¹⁰³ [48 U.S.C. § 1469a](#)

- Under HMGP, if the non-federal cost share for the entire award is \$200,000 or greater, FEMA may waive all or part of the cost share; such a waiver is usually consistent with that provided for PA under the major disaster declaration. If FEMA does not waive the cost share, the insular area must pay the entire cost-share amount, not only the amount greater than \$200,000.
- Under FMA and BRIC, if the non-federal cost share for the entire award is \$200,000 or greater, FEMA may waive all or part of the non-federal cost share at the request of the recipient. The recipient may request 100% cost share in its application.

Management costs are any indirect costs, any direct administrative costs, and any other administrative expenses associated with the administration of HMA awards and subawards. Management costs are provided under HMGP, HMGP Post Fire, BRIC and FMA.

K.1. Global Match

For HMGP and HMGP Post Fire, global match allows flexibility in which the non-federal cost share does not need to be 25% for each individual subaward; rather, the non-federal cost share for all the applicant's submitted subawards combined must equal 25% of the award. Global match allows the applicant to use any cost share match that exceeds the minimum requirement (referred to as overmatch) from certain subawards to alleviate the financial burden on other activities. For more information on global match, refer to [Part 10](#), [Part 10.A.11](#), and [Part 10.B.10](#).

K.2. Federal Assistance Allowed to be Used as Non-Federal Cost Share

In general, the non-federal cost share requirement may not be met with assistance from other federal agencies; however, some authorizing statutes explicitly allow some federal assistance to be used as a cost share for other federal grants.¹⁰⁴ For example, the Department of Housing and Urban Development Community Development Block Grants program and the Department of Defense Readiness and Environmental Protection Integration program are authorized to allow recipients to use program funds as non-federal cost share, and these funds can be applied to the HMA non-federal cost share.¹⁰⁵ Federal assistance that is used to meet a non-federal cost share requirement must meet the eligibility and compliance requirements of both the other federal source program and the HMA program.¹⁰⁶ More information on allowable funds for non-federal cost share can be found in the [Hazard Mitigation Assistance Cost Share Guide](#).

K.3. Increased Cost of Compliance as Non-Federal Cost Share

Increased Cost of Compliance coverage is available to most NFIP policyholders and can be used as non-federal cost share. To qualify for Increased Cost of Compliance, a community must determine that a home or business has sustained substantial damage or the structure meets the local

¹⁰⁴ Section 312 of the [Stafford Act](#), [42 U.S.C. § 5155](#), [2 CFR § 200.306\(b\)\(5\)](#)

¹⁰⁵ [42 U.S.C. § 5305\(a\)\(9\)](#); [10 U.S.C. § 2684\(a\)\(h\)](#)

¹⁰⁶ Refer to the [Community Development Block Grant](#) and [Readiness and Environmental Protection Integration](#) program websites for more information about their specific program requirements.

community's repetitive loss provision. The NFIP Increased Cost of Compliance claim payment from a flood event may be used to contribute to the non-federal cost share requirements so long as the claim is made within the timelines allowed by the NFIP. Increased Cost of Compliance payments can only be used for costs that are eligible for Increased Cost of Compliance benefits, which are elevation, floodproofing, relocation or demolition (or any combination of these activities). For example, Increased Cost of Compliance coverage cannot pay for property acquisition but can pay for structure demolition or relocation. In addition, federal assistance cannot be provided where Increased Cost of Compliance assistance is available. If the Increased Cost of Compliance payment exceeds the required non-federal share, the federal assistance award will be reduced to the difference between the cost of the activity and the Increased Cost of Compliance payment.

If an Increased Cost of Compliance payment is used as a subapplicant's non-federal cost share, the NFIP policyholder must assign that part of the Increased Cost of Compliance benefit that pertains to the property to the subapplicant. The NFIP policyholder can only assign the Increased Cost of Compliance benefit to the subapplicant; in no case can the policyholder assign the Increased Cost of Compliance benefit to another individual. Steps for the assignment of Increased Cost of Compliance coverage can be found in [FEMA P-1080, Answers to Frequently Asked Questions About Increased Cost of Compliance](#) (Feb. 2017).

In some cases, individual policyholders can take advantage of federal assistance to supplement the cost of hazard mitigation activities in their community. Policyholders can assign their Increased Cost of Compliance benefits to their community and enable the community to file a single claim on behalf of a community hazard mitigation project. FEMA will count the Increased Cost of Compliance claim monies as non-federal matching assistance in hazard mitigation subapplications because Increased Cost of Compliance coverage is a direct contract between the policyholder and the insurer. The community can then use FEMA hazard mitigation assistance to help pay for any additional portion of the cost of elevation, floodproofing, relocation or demolition that is more than the Increased Cost of Compliance claim payment. Policyholders and community officials must work closely together at every stage of this process.

Individual participation in a FEMA-assisted community hazard mitigation project is voluntary and the community is required to provide hazard mitigation assistance to any property owner whose Increased Cost of Compliance payment was counted toward the matching assistance.

K.3.1. Steps for the Assignment of Coverage D

Policyholders should follow these steps for the assignment of Coverage D – increased cost of compliance coverage:

1. The policyholder consents to the assignment of the Increased Cost of Compliance claim payment.
2. The community official provides the policyholder with an Assignment of Coverage D Form.
3. The policyholder signs the form and provides the signed form to the community official.

4. The community official sends a copy of the completed form, along with the community’s signed declaration of substantial damage to the NFIP at the following address:

NFIP Bureau and Statistical Agent
8400 Corporate Drive, Suite 350
Landover, MD 20785

5. The NFIP maintains a database of the increased cost of compliance information submitted by the community. The Bureau then sends the documents to the appropriate Write Your Own company with instructions. The company will then assign an adjuster.
6. The assigned adjuster contacts the policyholder to notify them of receipt of the claim and contacts the local community official to coordinate and help complete the claim.
7. The adjuster receives/reviews the contract for demolition, elevation, relocation or floodproofing to determine the cost.
8. The adjuster has the community official sign the proof of loss once the claim value has been determined.
9. The adjuster sends the final report, along with the proof of loss, to the insurance company for payment.
10. The insurance company issues the check to the community and advises the NFIP of the amount of the claim payment.

For additional information on increased cost of compliance, visit the FEMA “[Increased Cost of Compliance Coverage](#)” webpage.



Increased Cost of Compliance Resources

- Increased Cost of Compliance Coverage: <https://www.fema.gov/floodplain-management/financial-help/increased-cost-compliance>
- FEMA P-1080, *Answers to Frequently Asked Questions About Increased Cost of Compliance*: https://www.fema.gov/sites/default/files/2020-11/fema_p1080_icc_faq_20170817.pdf

L. Additional Requirements

This section presents information on accessibility, non-discrimination compliance, conflict of interest, procurements by states and other entities, the Uniform Relocation Assistance and Real Property Acquisition Policies Act, duplication of programs, and duplication of benefits.

L.1. Accessibility

FEMA and recipients of HMA must comply with any federal law addressing accessibility, as applicable, such as the Americans with Disabilities Act of 1990,¹⁰⁷ Architectural Barriers Act of 1968 (ABA)¹⁰⁸ or the Rehabilitation Act of 1973.¹⁰⁹ This document generally refers to the ADA regarding accessibility requirements, but HMA recipients should be aware that the ABA and Rehabilitation Act may also apply. As appropriate, factors for accessible design should be incorporated into HMA activities to serve the whole community to the greatest extent possible.

For more on accessibility, refer to the Section 504 information on the [FEMA Office of Civil Rights](#) webpage.

L.2. Non-Discrimination Compliance

Federal civil rights statutes, such as Section 308 of the Stafford Act,¹¹⁰ Section 504 of the Rehabilitation Act of 1973,¹¹¹ and Title VI of the Civil Rights Act of 1964,¹¹² along with DHS and FEMA regulations,¹¹³ require HMA programs to be administered in a fair and impartial manner, without discrimination on the basis of race, color, national origin, sex, religion, age, disability, limited English proficiency, or economic status, as applicable.

Applicants and subapplicants must ensure that no discrimination is practiced in the implementation of HMA programs. Applicants and subapplicants must consider fairness and equal access when prioritizing and selecting subapplications to submit with their grant application. Subapplicants also must ensure fairness and equal access to property owners and individuals that benefit from hazard mitigation activities.

L.3. Conflicts of Interest

Conflicts of interest may arise when FEMA makes a federal award. For example, a conflict of interest may occur in situations where a FEMA employee, officer, or agent; any members of the individual's immediate family; or the individual's partner has a close personal, business, or professional relationship with an applicant, subapplicant, recipient, subrecipient or employee.

Conflicts of interest may also arise when a recipient or subrecipient is involved in a procurement transaction. For example, a conflict of interest may occur when a recipient or subrecipient employee, officer, agent, or board member, any member of their immediate family, their partner, or an organization that employs or is about to employ any of the parties involved in the procurement, has a financial or other interest in or a tangible personal benefit from an entity considered for a contract.

¹⁰⁷ Public Law 101-336 (July 26, 1990), [42 U.S.C. § 12101](#)

¹⁰⁸ Public Law 90-480 (Aug. 12, 1968), [42 U.S.C. § 4151](#)

¹⁰⁹ Public Law 93-112 (Sep. 26, 1973), [42 U.S.C. § 701](#)

¹¹⁰ [42 U.S.C. § 5151](#)

¹¹¹ [29 U.S.C. § 794](#)

¹¹² [42 U.S.C. § 2000d](#)

¹¹³ [44 CFR Part 7](#)

During any procurement action, to ensure objective contractor performance and eliminate an unfair competitive advantage, contractors that develop or draft specifications, requirements, statements of work invitations for bids, or requests for proposals must be excluded from competing on those procurements.¹¹⁴

The recipient or subrecipient must maintain written standards of conduct covering conflicts of interest and governing the performance of its employees engaged in the selection, award and administration of subawards and procurement contracts.¹¹⁵ No employee, officer, agent, or board member with a real or apparent conflict of interest may participate in the selection, award, or administration of a subaward or contract supported by a federal award.

If the recipient or subrecipient has a parent, affiliate or subsidiary organization (that is not a state, local government or federally recognized tribe), then the recipient or subrecipient must also maintain written standards of conduct covering organizational conflicts of interest. Organizational conflicts of interest mean that because of relationships with the parent company, affiliate, or subsidiary organization, the recipient or subrecipient is unable or appears to be unable to be impartial in conducting a procurement action involving a related organization.¹¹⁶

The recipient must disclose to FEMA in writing any real or potential conflict of interest, as defined by the federal, state, local or tribal statutes or regulations or their own existing policies, that arise during the administration of the federal award within 15 calendar days of learning of the conflict of interest.¹¹⁷ Similarly, subrecipients must disclose any real or potential conflict of interest to the recipient as required by the recipient's conflict of interest policies or any applicable state, local or tribal statutes or regulations. This requirement starts when the application period opens, continues during the entire period of performance, and ends when the last audit is completed.

L.4. Procurement

All recipients and subrecipients must follow the requirements under the procurement regulations.¹¹⁸ Federal procurement requirements for state, federally recognized tribal, and territorial government agencies are different from those for tribes that are not federally recognized and local government agencies and private nonprofits. This section provides information on federal procurement and contracting requirements.

In the case of noncompliance, FEMA applies an appropriate remedy in accordance with its authorities.¹¹⁹ Additional procurement resources may be found on the FEMA "[Contracting with Federal Funds for Goods and Services Before, During and After Disasters](#)" webpage.

¹¹⁴ [2 CFR § 200.319\(b\)](#)

¹¹⁵ [2 CFR § 200.112](#), [2 CFR § 200.318\(c\)\(1\)](#)

¹¹⁶ [2 CFR § 200.318\(c\)\(2\)](#)

¹¹⁷ [2 CFR § 200.112](#)

¹¹⁸ [2 CFR §§ 200.317-327](#)

¹¹⁹ [2 CFR § 200.339](#)

L.4.1. Procurement Requirements for State, Federally Recognized Tribal and Territorial Governments

When conducting procurement transactions under a federal award, state, federally recognized tribal, and territorial governments (acting as either a recipient or subrecipient) must comply with [2 CFR § 200.317 and other applicable statutes](#), which include the following requirements:

- Following the same policies and procedures used for procurements with non-federal funds, and when such policies and procedures do not exist, following the procurement standards in [§§ 200.318 through 200.327](#).
- Complying with domestic preferences for procurement guidelines in [2 CFR § 200.322](#) and the Environmental Protection Agency (EPA) guidelines for procurement of recovered materials in [2 CFR § 200.323](#).¹²⁰
- Including required provisions in all contracts awarded.¹²¹ Some provisions are based on sound contracting practices while others are required by federal law, executive orders and regulations.

L.4.2. Procurement and Contracting Requirements for Tribes That Are Not Federally Recognized, Local Governments, and Private Nonprofits

Tribes that are not federally recognized, local governments and private nonprofits must comply with [2 CFR §§ 200.318 - 327](#). They must maintain and use documented procedures for procurement transactions under a federal subaward, including for acquisition of property or services, that are consistent with applicable state, local, and tribal laws and regulations.

If a federal requirement is different from the state, local, tribal or territorial government requirement or the subrecipient's own requirements, the subrecipient must use the requirement that allows for compliance at all levels. Additionally, territorial governments should consult their legal counsel when a project involves a public building or public works facility, as the [Buy American Act](#) may apply to the procurement process.¹²²

L.4.2.1. General Procurement Requirements

General procurement requirements are outlined in [2 CFR § 200.318](#). Tribes that are not federally recognized, local governments and private nonprofits must:

- Maintain and use documented procedures for procurement transactions under a federal subaward, including for acquisition of property or services, that are consistent with applicable state, local, tribal or territorial laws and regulations.¹²³ The procedures must:

¹²⁰ FEMA recommends recipients and subrecipients work with their general counsel on the application of [2 CFR § 200.321](#), as it is no longer required by the federal procurement rules.

¹²¹ [2 CFR § 200.327](#)

¹²² [41 U.S.C. §§ 8301 - 8305](#)

¹²³ [2 CFR § 200.318\(a\)](#)

- Exclude contractors that develop or draft specifications, requirements, statements of work, or invitations for bids from competing on those procurements.
- Incorporate a clear and accurate description of the technical requirements for the property, equipment, or service being procured.
- Identify any additional requirements which the offerors must fulfill and all other factors that will be used in evaluating bids or proposals.¹²⁴
- Maintain oversight to ensure that contractors perform in accordance with the terms, conditions and specifications of their contracts or purchase orders.¹²⁵
- Maintain written standards of conduct covering conflicts of interest and governing the performance of employees who engage in the selection, award and administration of contracts, which provide for disciplinary actions to be applied for violations.¹²⁶
- Avoid the acquisition of unnecessary or duplicative items. Consideration should be given to consolidating or breaking out procurements to obtain a more economical purchase. When appropriate, an analysis should be made between leasing and purchasing or equipment to determine the most economical approach.¹²⁷
- Provide full and open competition.¹²⁸ Ensure that all prequalified lists of persons, firms, or products used in procurement transactions are current and include enough qualified sources to ensure maximum open competition. When establishing or amending prequalified lists, the subrecipient must consider objective factors that evaluate price and cost to maximize competition. The recipient or subrecipient must not preclude potential bidders from qualifying during the solicitation period.¹²⁹
- Perform a cost or price analysis for every procurement transaction above the simplified acquisition threshold,¹³⁰ including contract modifications. The subrecipient must make independent estimates before receiving bids or proposals.¹³¹
- Consider contractor integrity, public policy compliance, proper classification of employees, past performance record, and financial and technical resources.¹³²

¹²⁴ [2 CFR § 200.319\(d\)](#)

¹²⁵ [2 CFR § 200.318\(b\)](#)

¹²⁶ [2 CFR § 200.318\(c\)\(1\)](#)

¹²⁷ [2 CFR § 200.318\(d\)](#)

¹²⁸ [2 CFR § 200.319](#)

¹²⁹ [2 CFR § 200.319\(e\)](#)

¹³⁰ According to [2 CFR § 200.1](#), the simplified acquisition threshold for procurement activities administered under federal awards is set by the Federal Acquisition Regulation at [48 CFR Part 2, Subpart 2.1](#).

¹³¹ [2 CFR § 200.324\(a\)](#)

¹³² [2 CFR § 200.318\(h\)](#)

- Ensuring the contractor was not suspended or debarred.¹³³
- Maintaining records to detail the history of each procurement transaction including but not limited to:
 - Rationale for the procurement method.
 - Contract type selection.
 - Contractor selection or rejection.
 - The basis for the contract price.¹³⁴

L.4.2.2. Procurement Methods

Tribes that are not federally recognized, local governments and private nonprofits must use one of the following procurement methods:

- Micro-purchase.
- Simplified Acquisition.
- Sealed bid (formal advertising).
- Competitive proposal.
- Noncompetitive proposal (sole source).¹³⁵

L.4.2.3. Noncompetitive Procurement

FEMA may reimburse costs incurred under a contract procured through a noncompetitive proposal, also referred to as sole source contract, only when one or more of the following circumstances apply:

- The aggregate dollar amount of the acquisition of property or services does not exceed the micro-purchase threshold.
- The item is only available from a single source.
- The public exigency or emergency for the requirement will not permit a delay resulting from competitive solicitation (this exception to competitive procurement is only for work specifically related to the circumstance and only while the circumstances exist). Recipients and subrecipients need to immediately begin the process of competitively procuring similar goods

¹³³ [2 CFR § 200.318\(h\)](#)

¹³⁴ [2 CFR § 200.318\(i\)](#)

¹³⁵ [2 CFR § 200.320](#)

and services and transition to a competitively procured contract as soon as the circumstances cease to exist.

- FEMA or the pass-through entity expressly authorizes a noncompetitive proposal in response to a written request from the recipient or subrecipient.
- After solicitation of several sources, competition is determined inadequate.¹³⁶

For each noncompetitive procurement, besides micro-purchases, recipients and subrecipients must identify which of the four circumstances listed above apply and provide all the following information, documentation and justification:

- A brief description of the product or service being procured, including the expected amount of the procurement.
- Explanation of why a noncompetitive procurement is necessary. If there was a public exigency or emergency, the justification should explain the specific conditions and circumstances that clearly illustrate why competitive procurement would cause an unacceptable delay in addressing the public exigency or emergency. Failure to plan for the transition to competitive procurement cannot be the basis for continued use of noncompetitive procurement based on public exigency or emergency.
- Length of time the noncompetitive contract will be used for the defined scope of work, and the impact on that scope of work should the noncompetitively procured contract not be available for that amount of time (e.g., how long the applicant anticipates the exigency or emergency circumstances to continue, how long it would take to identify requirements and award a contract that complies with all procurement requirements, or how long it would take another contractor to reach the same level of competency).
- The specific steps taken to determine that the applicant could not have used, or did not use, full and open competition for the scope of work (e.g., research conducted to determine that there were limited qualified resources available that could meet the contract provisions).
- Any known conflicts of interest and any efforts that were made to identify potential conflicts of interest before the noncompetitive procurement occurred. If no efforts were made, explain why.
- Any other justifications.

In the case of noncompliance with noncompetitive procurement requirements, FEMA applies an appropriate remedy in accordance with its authorities.¹³⁷

¹³⁶ [2 CFR § 200.320\(c\)](#)

¹³⁷ [2 CFR § 200.339](#)

L.4.2.4. FEMA Review of a Pass-Through Entity's Approval of Noncompetitive Procurement

A pass-through entity may approve a subrecipient's written request to procure a product or service through a noncompetitive proposal method.¹³⁸ In cases where a pass-through entity approves a request to use a noncompetitive proposal, the approval must be consistent with all applicable state, local, and federally recognized tribal laws and regulations, as well as the pass-through entity's and subrecipient's written procurement standards. Additionally, pass-through entities' and subrecipients' procurements must continue to comply with the requirements, even in cases where the pass-through entity approves a request to use noncompetitive proposals.

FEMA may review a pass-through entity's decision to allow a procurement using noncompetitive proposals, such as during the award monitoring process, in response to an audit finding or other similar circumstances, or for the reasons specified in [2 CFR § 200.325](#). During its review, FEMA will inspect the written procurement records for the transaction, including the rationale for the method of procurement, selection of contract type, and contractor selection or rejection.

FEMA will not substitute its judgment for that of the pass-through entity in cases where the pass-through entity has documented justification for allowing a noncompetitive procurement. However, FEMA will review the documented justification for approving the noncompetitive procurement to ensure it otherwise complies with the requirements of [2 CFR §§ 200.318-327](#). FEMA may also require the pass-through entity to demonstrate that the decision to approve the noncompetitive proposal is consistent with applicable state, local, and federally recognized tribal laws and regulations, as well as all applicable written procurement standards. FEMA may also assess whether the costs incurred under the procurement are reasonable.

L.4.3. Prohibition On Certain Telecommunications and Video Surveillance Services or Equipment

According to [2 CFR § 200.216](#),¹³⁹ recipients and subrecipients, as well as their contractors and subcontractors, may not obligate or expend any FEMA award funds to:

- Procure or obtain any equipment, system or service that uses covered telecommunications equipment or services as a substantial or essential component of any system or as critical technology of any system.
- Enter into, extend or renew a contract to procure or obtain equipment, systems or service that use covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology of any system.

¹³⁸ [2 CFR § 200.320\(c\)\(4\)](#)

¹³⁹ Section 889(b)(1) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019. On May 10, 2022, FEMA issued [Policy #405-143-1](#), Prohibitions on Expending FEMA Award Funds for Covered Telecommunications Equipment or Services. For the most updated policy and additional information, visit FEMA's "[Procurement](#)" webpage.

- Enter into, extend or renew contracts with entities that use covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system.

Covered telecommunications and surveillance equipment are described in Section 889(b)(1) of the [John S. McCain National Defense Authorization Act for Fiscal Year 2019](#) and [2 CFR § 200.216](#).¹⁴⁰

FEMA recipients and subrecipients are required to include a provision in their contracts explaining the prohibitions under Section 889(b)(1) of John S. McCain National Defense Authorization Act for Fiscal Year 2019 and [2 CFR § 200.216](#). This applies to subcontractors under any new, extended or renewed contract. Recipients and subrecipients may draft their own provisions that meet these requirements or use language provided on the FEMA “[Contracting with Federal Funds for Goods and Services Before, During and After Disasters](#)” webpage.

L.4.4. Procurement of Recovered Materials

A recipient or subrecipient that is a state agency or agency of a political subdivision of a state and its contractors must comply with section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act of 1976 as amended, [42 U.S.C. 6962](#). The requirements of Section 6002 include procuring only items designated in the guidelines of the Environmental Protection Agency (EPA) at 40 CFR part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

L.4.5. Build America, Buy America Act Requirements

The [Build America, Buy America Act](#)¹⁴¹ requires all federal agencies, including FEMA, to ensure that no federal financial assistance for “infrastructure” projects is provided “unless all of the iron, steel, manufactured products, and construction materials used in the project are produced in the United States.” BRIC and FMA awards are subject to Buy America requirements. HMGP and HMGP Post Fire are not subject to the Build America, Buy America Act.¹⁴²

BRIC and FMA awards for infrastructure, issued on or after Jan. 2, 2023, must include a contract provision explaining the Build America, Buy America Act requirements and a self-certification where contractors can certify compliance with domestic preference requirements outlined in the Act, unless FEMA waives the requirement. To ensure compliance when purchasing products for the project,

¹⁴⁰ [Public Law 115-232](#) (Aug. 13, 2018)

¹⁴¹ [Public Law 117-58](#), Sec. 70901-52

¹⁴² [Public Law 117-58](#); Sec. 70912(4)(B)

FEMA award recipients or subrecipients may request a certification letter from the product manufacturer to demonstrate compliance with Build America, Buy America Act requirements.

Awards under FEMA financial assistance programs subject to the Build America, Buy America Act requirements, as well as new funding FEMA obligates to existing awards, must comply with the following domestic preference requirements:¹⁴³

- All iron and steel used in the project are produced in the United States.
- All manufactured products purchased with FEMA financial assistance must be produced in the United States.
- All construction materials are manufactured in the United States.

Recipients and subrecipients may request a waiver of the application of the Build America, Buy America Act requirements in certain limited circumstances. FEMA may approve a waiver request if it finds that:¹⁴⁴

- Application of the Build America, Buy America Act requirements would be inconsistent with the public interest.
- Types of iron, steel, manufactured products, or construction materials are not produced in the United States in sufficient and reasonably available quantities or of a satisfactory quality; or
- The inclusion of iron, steel, manufactured products, or construction materials produced in the United States will increase the cost of the overall project by more than 25%.

BRIC and FMA awards for infrastructure issued on or after Oct. 23, 2023, are subject to [2 CFR Part 184](#). For more information about the applicability of the Build America, Buy America Act requirements and how to submit a waiver, refer to [FEMA Policy #207-22-0001](#) and the FEMA “[Buy 'America' Preference in FEMA Financial Assistance Programs for Infrastructure](#)” webpage.

L.4.6. Required Contract Clauses

All Recipients and subrecipients must include the required contract provisions in [2 CFR § 200.327](#) and Appendix II to Part 200 in all contracts awarded. Some provisions are based on sound contracting practices while others are required by federal law, executive orders and regulations.

For more information about required and recommended contract provisions, including sample language, refer to the [FEMA Contract Provisions Guide, Navigating Appendix II to Part 200 - Contract Provisions for Non-Federal Entity Contract Under Federal Awards \(October 2024\)](#) and the

¹⁴³ [Public Law 117-58](#); Sec. 70912(2) and Sec. 70914(a)

¹⁴⁴ [Public Law 117-58](#); Sec. 70914(b)

[“Contracting with Federal Funds for Goods and Services Before, During and After Disasters”](#) webpage.

L.4.7. Documentation Requirements

The recipient or subrecipient should submit the following to support contract costs claimed (not an all-inclusive list):

- Procurement policy (required when requested by FEMA or recipient or subrecipient).
- Procurement documents, such as request for proposals, bids, selection process, etc. (required when requested by FEMA or recipient or subrecipient).¹⁴⁵
- FEMA or recipient or subrecipient review.
- A cost or price analysis (required for contracts above the simplified acquisition threshold).
- Contracts, change orders and summary of invoices (required).
- Dates worked (to validate that work was completed within the award’s period of performance).
- Documentation that substantiates monitoring, such as weekly logs.

L.5. Reimbursement for Costs Incurred by Homeowners Contracting to Perform Hazard Mitigation Scope of Work

All recipients and subrecipients are subject to the procurement requirements addressed in [2 CFR Part 200](#). However, in providing financial assistance under the HMA programs, FEMA may approve a subrecipient’s request to use federal assistance to reimburse individual property owners who contract for the performance of eligible hazard mitigation work on their own homes.

Subrecipients may allow property owners to secure contractors to implement the project and then reimburse the property owner with federal assistance. However, the recipient and subrecipient will retain their legal obligations for oversight of the assistance under all applicable program regulations, program guidance, and requirements of [2 CFR Part 200](#). Program regulations and guidance require the recipient and subrecipient to properly monitor, report on and account for the use of assistance with documentation showing costs are reasonable, necessary, allowable and allocable, and at closeout, all approved projects were completed consistent with award and subaward terms, program requirements and applicable law.¹⁴⁶

¹⁴⁵ [2 CFR §§ 200.317 - 327](#)

¹⁴⁶ [44 CFR §206.433\(a\)](#), [206.434\(c\)\(5\)](#), [206.438\(a\)\(c\) and \(d\)](#), and [206.439](#); and [2 CFR §§ 200.328 - 200.330](#), [200.344](#), [200.403](#), and [200.405](#).

L.6. Uniform Relocation Assistance and Real Property Acquisition Policies Act

HMA projects involving acquisition, rehabilitation or demolition may be subject to the requirements of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (URA).¹⁴⁷ Property owners participating in FEMA-funded property acquisition and structure demolition or relocation projects are not entitled to relocation benefits because the voluntary program meets URA exceptions.¹⁴⁸ However, any displaced person as defined by [49 CFR § 24.2\(a\)](#) (such as a displaced tenant), who is temporarily or permanently displaced from their home or business as a direct result of a HMA-funded project, is entitled to compensation in accordance with [49 CFR Part 24](#). Costs incurred to meet URA requirements are eligible and should be included in the subapplication budget. The URA requirements detailed under the acquisition project type in [Part 12](#) provide additional information. These requirements apply to all project types where acquisition, rehabilitation or demolition is involved.

L.7. Duplication of Programs

FEMA will not provide assistance for activities for which it determines the more specific authority lies with another federal agency or program. Other programs and authorities should be examined before applying for HMA. HMA programs are not intended to be used as a substitute for other available program authorities. Available program authorities may include other FEMA programs and programs under other federal agencies, such as the EPA, the U.S. Army Corps of Engineers (USACE), and the Natural Resources Conservation Service. FEMA may disallow or recoup amounts that duplicate other authorities. For more information about exceptions to duplication of programs prohibitions on USACE projects, refer to [Part 12.E.1.3.1](#).

L.7.1. Federally Authorized Water Resources Development Projects

Section 1210(b) of the [Disaster Recovery Reform Act of 2018](#) creates an exception for HMGP to the prohibition under HMA that FEMA will not provide financial assistance for activities FEMA has determined another federal agency has more specific authority to conduct.¹⁴⁹ Specifically, section 1210(b) of the Disaster Recovery Reform Act provides that FEMA may use HMGP assistance to fund the construction of federally authorized water resources development projects that would normally fall under the primary authority of USACE, as long as those activities are also eligible under HMGP. For more information, refer to [Part 12.E.1.3.1](#).

L.8. Duplication of Benefits and Reporting Requirements

HMA cannot duplicate assistance received by or available to applicants or subapplicants from other sources for the same purpose.¹⁵⁰ If the recipient or subrecipient receives assistance from another

¹⁴⁷ Public Law 91-646 (Jan. 2, 1971), [42 U.S.C. Chapter 61](#)

¹⁴⁸ [Refer to definition of “persons not displaced” at 2 CFR § 24.2\(a\). Refer also to 2 CFR § 24.101\(b\)\(1\).](#)

¹⁴⁹ [Division D of Public Law 115-254](#) (Oct. 5, 2018)

¹⁵⁰ Section 312 of the [Stafford Act](#), [42 U.S.C. § 5155](#)

source for the same work that FEMA assisted, FEMA reduces the eligible cost or de-obligates assistance to prevent a duplication of benefits.

Recipients, subrecipients and individual property owners are responsible for accurately reporting the availability or receipt of duplicative grants, loans, insurance payments, legal claims, gifts or other payments pertaining to the property being mitigated using HMA. Reporting should occur at any point that such information becomes available, including:

- During application development, pre-award and approval.
- During the award period of performance.
- During closeout.
- After award closeout, if duplicative assistance is received later.

Examples of other sources include insurance claims, other assistance programs (including previous project or planning awards and subawards from other FEMA programs), legal awards or other benefits associated with properties or damage that are subject to litigation.

Duplication of Benefits

Duplication of benefits is used to describe assistance that is from more than one source and that is used for the same purpose or activity. The purpose may apply to the entire activity or only part of it.

Duplication of benefits may apply when assistance for the same purpose:

- Has been received.
- Will be received.
- Is reasonably available from another source, such as insurance or legal settlements due to the property owners.

Because the availability of other sources of hazard mitigation award or loan assistance is subject to available information and the means of each individual applicant, HMA does not require that property owners seek assistance from other sources (except for insurance). However, it is the responsibility of the property owner to report other benefits received, any applications for other assistance, the availability of insurance proceeds, or the potential for other compensation, such as compensation from pending legal claims for damage relating to the property. If the property owner has an insurance policy that could potentially cover hazard mitigation activities (including Increased Cost of Compliance coverage), FEMA will generally require that the property owner file a claim prior to the receipt of aid from HMA.

According to the Privacy Act of 1974,¹⁵¹ information regarding other assistance received by properties in HMA activities may be shared under [5 U.S.C. § 552a\(b\)](#). Uses may include sharing with custodians of property records, such as other federal or other governmental agencies, insurance companies, or any public or private entity, to ensure the property has not received money that is duplicative of any possible HMA awards received. When obtaining information from property owners about other sources of assistance, a Privacy Act statement must be distributed to each owner. For more information about the process of verifying potential duplication and Privacy Act requirements, access the [Hazard Mitigation Assistance Tool for Identifying Duplication of Benefits](#). For a copy of the Privacy Act statement, refer to Appendix F of that document.

M. Eligibility and Requirements Resources



Eligibility and Requirements Resources

- Hazard Mitigation Planning: <https://www.fema.gov/emergency-managers/risk-management/hazard-mitigation-planning>
- FEMA P-361: *Safe Rooms for Tornadoes and Hurricanes: Guidance for Community and Residential Safe Rooms* https://www.fema.gov/sites/default/files/documents/fema_safe-rooms-for-tornadoes-and-hurricanes_p-361.pdf
- *Hazard Mitigation Assistance Cost Share Guide*: https://www.fema.gov/sites/default/files/2020-08/fema_hma_cost-share-guide.pdf
- FEMA P-1080: *Answers to Frequently Asked Questions About Increased Cost of Compliance* https://www.fema.gov/sites/default/files/2020-11/fema_p1080_icc_faq_20170817.pdf
- Increased Cost of Compliance Coverage: <https://www.fema.gov/floodplain-management/financial-help/increased-cost-compliance>
- System for Award Management: <http://www.sam.gov/>
- Contracting with Federal Funds for Goods and Services Before, During and After Disasters: <https://www.fema.gov/grants/procurement>

EHP Resources:

- Environmental & Historic Preservation Grant Preparation Resources: <https://www.fema.gov/grants/guidance-tools/environmental-historic/preparation-resources>
- FEMA Directive 108-1: *Environmental Planning and Historic Preservation Responsibilities and Program Requirements* https://www.fema.gov/sites/default/files/2020-07/fema_ehp_requirements_2018.pdf

¹⁵¹ Public Law 93-579 (Dec. 31, 1974), [5 U.S.C. § 552a](#)

- National Environmental Policy Act: <https://www.fema.gov/emergency-managers/practitioners/environmental-historic/laws/nepa>
- National Historic Preservation Act: <https://www.fema.gov/emergency-managers/practitioners/environmental-historic/laws/nhpa>
- Endangered Species Act: <https://www.fws.gov/law/endangered-species-act>
- Executive Order 11988 on *Floodplain Management* <https://www.archives.gov/federal-register/codification/executive-order/11988.html>
- Executive Order 11990 on the *Protection of Wetlands* <https://www.archives.gov/federal-register/codification/executive-order/11990.html>
- Executive Order 12898 on *Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations* <https://www.archives.gov/files/federal-register/executive-orders/pdf/12898.pdf>
- U.S. Fish and Wildlife Service Coastal Barrier Resources Act Project Consultation: <https://www.fws.gov/cbra/Consultations.html>

For a comprehensive list of EHP resources, refer to the FEMA EHP webpage:

<https://www.fema.gov/emergency-managers/practitioners/environmental-historic>

Part 5. Cost Effectiveness

In accordance with authorizing statutes, only cost-effective hazard mitigation measures are eligible for potential funding from FEMA.¹⁵² FEMA has specified minimum project criteria via regulation and policy and requires applicants and subapplicants to demonstrate that hazard mitigation projects are cost-effective.¹⁵³

FEMA developed several methodologies that applicants and subapplicants may use to demonstrate cost effectiveness in accordance with Office of Management and Budget (OMB) [Circular A-94, Guidelines and Discount Rates for Benefit-Cost Analysis of Federal Programs](#) (Oct. 29, 1992).

FEMA generally assesses the cost effectiveness of hazard mitigation projects through a Benefit-Cost Analysis (BCA)—a quantitative analysis used to assess the cost effectiveness of a hazard mitigation measure by comparing the project’s avoided future damages (benefits) to the costs over the project lifetime. The result is a Benefit-Cost Ratio (BCR), which is the numerical expression of the cost effectiveness of a project calculated as the net present value of total project benefits divided by the net present value of total project costs.¹⁵⁴ A project is generally considered to be cost-effective when the BCR is 1.0 or greater, indicating the benefits of a prospective hazard mitigation project are sufficient to justify the costs.

FEMA created the [BCA Toolkit](#) to help applicants perform benefit-cost analyses in accordance with OMB’s guidelines. Through the development of the BCA Toolkit, FEMA created a standardized methodology that is specific to hazard mitigation activities and provides consistency across applicants and subapplicants. Methodologies for cost-effectiveness determination methods and standard values will be documented and made publicly available on FEMA’s [Benefit-Cost Analysis](#) webpage.

In addition to the BCA Toolkit, FEMA provides several streamlined methodologies that applicants and subapplicants may use to demonstrate cost effectiveness. While FEMA encourages the use of the BCA Toolkit, applicants and subapplicants may also use a non-FEMA BCA methodology if pre-approved by FEMA in writing.

For Building Resilient Infrastructure and Communities (BRIC), Flood Mitigation Assistance (FMA) and FMA Swift Current additional information on demonstrating cost effectiveness may be found in the appropriate year’s Notice of Funding Opportunity (NOFO). These funding opportunities are available on Grants.gov.

¹⁵² For Hazard Mitigation Grant Program (HMGP), refer to [42 United States Code \(U.S.C.\) § 5170c](#); for Building Resilient Infrastructure and Communities (BRIC), refer to [42 U.S.C. § 5133](#); for Flood Mitigation Assistance (FMA), refer to [42 U.S.C. § 4104c](#).

¹⁵³ For HMGP, refer to [44 Code of Federal Regulations \(CFR\) § 206.434](#); for FMA, refer to [44 CFR Part 77](#).

¹⁵⁴ [OMB Circular A-94](#) defines net present value as the difference between the discounted present value of benefits and the discounted present value of costs.

A. Exemptions

Certain activities are exempt from the requirement to demonstrate cost effectiveness by completing a BCA. Exempt activities include:

- Management costs.
- Mitigation planning and planning-related activities.
- Any activities claimed under the 5 Percent Initiative (Refer to [Part 10](#)).
- Codes and standards activities.
- Advance assistance under the Hazard Mitigation Grant Program (HMGP) and Hazard Mitigation Grant Program Post Fire (HMGP Post Fire).
- Project scoping under BRIC and FMA.
- Partnership activities.
- Technical assistance awards.
- Earthquake early warning systems.

The cost-effectiveness requirements in the Hazard Mitigation Assistance (HMA) program authorizing statutes must be met and may be supplemented by criteria outlined in relevant federal principles, requirements, and guidelines if applicable.

More information about specific activities can be found in [Part 11](#), [Part 12](#) and [Part 13](#). Activities may be subject to funding limitations to maintain the cost effectiveness of the Hazard Mitigation Assistance (HMA) programs.

B. Calculating the Benefit-Cost Ratio

Depending on the project type, applicants must use one or more of the following methodologies to document cost effectiveness.

B.1. Streamlined Benefit-Cost Analysis Methodologies

FEMA offers several streamlined methodologies as alternatives to completing the full BCA using the BCA Toolkit. Current instructions for completing a cost-effectiveness analysis can be found on the FEMA "[Benefit-Cost Analysis](#)" webpage.

B.1.1. Hazard Mitigation Projects with Total Projects Costs of Less than \$1 Million

HMA projects with a total cost under \$1 million, at the time of submission, may be evaluated for cost effectiveness with a narrative that includes qualitative and quantitative data demonstrating the benefits and cost effectiveness of the project. Instructions for completing a cost-effectiveness narrative may be found on the FEMA “[Benefit-Cost Analysis](#)” webpage. During its review, FEMA will validate the cost effectiveness narrative and estimate and record a benefit cost ratio for the proposed project during its review. Total project costs for purposes of demonstrating cost effectiveness include all project costs (federal and non-federal share) required to complete the hazard mitigation activity.

B.1.2. Pre-Calculated Benefits for Hazard Mitigation Projects

FEMA calculated several benefit-cost efficiencies to provide pre-calculated cost-effectiveness values. Using these pre-calculated benefits eliminates the requirement for applicants to conduct a separate BCA for eligible projects.

FEMA developed pre-calculated benefits for the following project types:

- Acquisitions, elevations, and mitigation reconstruction in the SFHA.
- Acquisitions of repetitive loss and severe repetitive loss structures outside of the SFHA.
- Residential hurricane wind retrofits.
- Non-residential hurricane wind retrofits.
- Residential tornado safe rooms.
- Post-wildfire mitigation (soil stabilization, flood diversion and reforestation).
- Generators for hospitals.

The precalculated benefits are not intended to drive actual project costs or to serve as a detailed project budget. Individual project budgets must be based on industry standards, vendor estimates or other acceptable sources. Projects must still meet all other applicable award and subaward requirements.

Pre-calculated benefits cannot be combined with benefits from a traditional BCR calculated using the FEMA BCA Toolkit for purposes of aggregation of benefits. The application of excess benefits from the pre-calculated structures cannot be applied to the structure(s) analyzed using the BCA Toolkit or other FEMA-approved methodology. If pre-calculated benefits for a project are not greater than the project costs, the BCA Toolkit can be used to perform BCA.

Detailed information on using pre-calculated benefits can be found by project type in [Part 12](#). Additionally, new pre-calculated benefits and updated values for existing benefits can be found on FEMA’s “[How to Complete a Streamlined BCA](#)” webpage.

B.1.3. Substantially Damaged Structures in a Riverine SFHA

The acquisition of structures that are declared substantially damaged (from any hazard) and located in a riverine Special Flood Hazard Area (SFHA) on an advisory, preliminary, or effective Flood Insurance Rate Map is considered cost-effective. Substantial damage is defined as damage sustained by a building whereby the cost of restoring the building to its before-damaged condition would equal or exceed 50% of the market value of the building before the damage occurred.¹⁵⁵ If this methodology is used, the project subapplication must include a certification from the local floodplain administrator or a certified state/tribal floodplain specialist that identifies and declares each structure substantially damaged.

B.2. Calculation of the Benefit-Cost Ratio Using the Benefit-Cost Analysis Toolkit

FEMA developed the BCA Toolkit to facilitate the process of preparing a BCA. Using the BCA Toolkit will ensure the calculations are prepared in accordance with OMB and FEMA’s standardized methodologies.

The BCA Toolkit consists of modules for a range of major natural hazards and project types. Given the right data, the BCA Toolkit can analyze nearly any hazard mitigation project type.

The most recent version of the BCA Toolkit, including detailed instructions on how to download and use the tool, may be found on the FEMA “[Benefit-Cost Analysis](#)” webpage.

Other methods to demonstrate cost effectiveness may be used when they address an uncorrectable flaw in the FEMA-approved methodologies or propose a new approach that is unavailable using current tools. New methodologies may be used only if FEMA approves the methodology before application submission. The request must provide justification of why the subapplicant cannot use the standard BCA tools and provide documentation to support the claim.

B.3. Key Elements of the Benefit-Cost Ratio

The BCR is expressed as the net present value of the benefits of the project divided by the costs. OMB Circular A-94 states that BCAs should count benefits and costs to society—meaning that the BCA should capture all benefits and costs of the project, not just benefits or costs accruing to particular entities.

¹⁵⁵ [44 CFR § 59.1](#)

To calculate the BCR, the BCA Toolkit uses hazard and risk data as well as information about the hazard mitigation project such as project effectiveness. The four key elements of the BCR calculation are:

1. The benefits of the project.
2. The costs of the project.
3. The hazard risk (the likelihood and consequences of the hazard causing damage).
4. The economic factors of the analysis (i.e., discount rate and project useful life).

These four key elements are described in the following sections.

B.3.1. Project Benefits

The benefits of a hazard mitigation project are any future costs or losses that can be avoided by completing a mitigation project. In other words:

$$\textit{Benefits} = \textit{Costs Before Mitigation} - \textit{Costs After Mitigation}$$

The following “costs before mitigation” should be counted regardless of who pays for them, whether that be the federal government; state, local, tribal and territorial governments; or the property owner, and can include the following:

- Physical damage.
- Loss of service/function.
- Injury or death.
- Displacement costs.
- Emergency management costs.
- Maintenance costs.
- National Flood Insurance Program (NFIP) administration costs.

The “costs after mitigation” includes costs after the hazard mitigation project has taken place. For example, if a home is elevated, it will not be damaged until the floodwaters reach the elevated first floor. Costs after mitigation are also known as residual damage. All project types have residual damage except for acquisition and demolition projects, which demolish a structure and then leave the property as open space in perpetuity. The costs after mitigation reflect the level of protection that the mitigation measure provides (i.e., a house elevated to the 1% annual chance flood level or hurricane shutters that provide protection for up to 120 mile per hour winds).

BCAs should capture all project benefits to the extent feasible, even after the project has already achieved a BCR of 1.0 or greater. Capturing all possible benefits provides a more comprehensive account of a project's benefits and helps ensure the project remains cost-effective if a cost increase occurs.

B.3.1.1. Physical Damage

Avoided physical damage is one of the primary categories of benefits in FEMA BCAs. Buildings, contents, infrastructure, landscaping, vehicles, agricultural assets and equipment can be damaged by hazard events. This damage has a dollar value (i.e., the cost to repair or replace the damaged property). The benefits of a hazard mitigation project are the reduction in future damage attributable to a mitigation project.

B.3.1.2. Loss of Service/Function

Another major benefit of a hazard mitigation project can be avoided loss of service or function of the facility. This benefit is only applicable to facilities that provide a service to the public, such as utilities, emergency operations facilities (i.e., police, fire), government facilities, infrastructure such as roads and bridges, and educational facilities.

For critical facilities such as police and fire stations and hospitals, the value of services is estimated based on the service population, impacts to service (e.g., increased distance to the nearest fire station, reduced number of hospital beds) and the societal benefits of maintaining that facility in the aftermath of a disaster. For critical and other public facilities such as emergency operations centers, schools or government buildings, the annual operating budget is used as a proxy to estimate the value of services.

B.3.1.3. Injury or Death

For some types of hazard mitigation projects, a major benefit may include avoided human injury and/or loss of life. This benefit is applicable to project types that address hazards with little to no warning time, that protect populations that cannot evacuate (e.g., emergency personnel), or protect critical facilities that provide life safety services (such as hospitals).

The BCA Toolkit allows for benefits from avoided human injury and/or death for the following project types:

- Tornado safe rooms.
- Hurricane safe rooms.
- Seismic retrofits.
- Wildfire mitigation.
- Landslide acquisitions.

Injury or death are also considered within the BCA Toolkit methodology for projects mitigating risk to certain critical facilities (i.e., hospitals, emergency medical services and fire stations) based on service populations. Subapplicants may also include benefits for avoided injury and/or loss of life for additional project types, such as extreme temperature, tsunami vertical evacuation structures and dam retrofits, by including supporting documentation to demonstrate the avoided losses.

B.3.1.4. Displacement Costs

Avoided displacement costs may be counted as a benefit. Displacement costs occur when occupants of residential, commercial or public buildings are displaced to temporary quarters while damage is repaired. These costs include rent and other monthly costs, such as furniture rental and utilities, and one-time costs, such as moving and utility hookup fees.

B.3.1.5. Emergency Management Costs

Some projects may have the benefit of avoided emergency management costs. Emergency management costs include a range of disaster response and recovery costs that communities may incur during and immediately after a disaster. In many disasters, these costs are much smaller than physical damage or loss of service impacts.

B.3.1.6. Maintenance Costs

Some hazard mitigation projects may reduce long-term maintenance costs for the owner or operating entity. These benefits may be included in the BCA. For example, if power lines are buried, the utility company may no longer need to trim the trees surrounding the power lines. However, in some cases, the maintenance costs for the hazard mitigation measure could increase and should be reflected in the maintenance cost section of the BCA.

B.3.1.7. National Flood Insurance Program Administration Costs

Properties insured under the NFIP incur administrative fees to run the program. If a property is acquired and demolished, there is no longer an administrative cost to the government for that property; it is therefore an avoided cost and may be counted as a benefit in the BCA. Avoided NFIP administration costs do not have to be calculated; these are standard values that are incorporated into the BCA Toolkit.

B.3.1.8. Volunteer Labor

Any hazard mitigation project that eliminates or reduces the need for volunteer labor can claim this benefit. It must be clearly demonstrated in the application that the proposed project will reduce or eliminate the future need for the volunteer effort that is being claimed.

B.3.1.9. Social Benefits

Extensive epidemiological research shows there is a causal connection between natural disaster events and the onset of mental health issues, which can be valued as the cost of mental health

treatment and lost productivity at work. Social benefits capture the avoided costs associated with mental stress, anxiety and lost wages that disaster survivors would otherwise experience when displaced from their primary residence.

Only projects that protect residential structures and are intended to keep residents from being displaced from their primary residence may include social benefits in the BCA. Social benefits do not apply to projects such as seismic retrofits or residential tornado safe rooms, where the primary benefits are life-safety protection.

Where applicable, a project's BCA may include the precalculated values for social benefits on FEMA's "[How to Complete a Streamlined BCA](#)" webpage. These values are one-time benefits, meaning they do not occur on an annual basis.

B.3.1.10. Ecosystem Service Benefits

Ecosystem service benefits are the contributions the project provides to an ecosystem that benefits the environment and human populations such as air quality, water filtration and recreational space. These benefits accrue when a parcel's land use is changed or enhanced by a hazard mitigation activity to one that provides a higher level of natural benefits.

Values for these depend on the post-mitigation land cover category and may be found on FEMA's "[How to Complete a Streamlined BCA](#)" webpage. These benefits apply to any project type that results in an improved or restored natural environment. Eligible project types include but are not limited to acquisition and demolition or relocation; post-wildfire revegetation; and floodplain, stream, or coastal restoration. Certain types of projects, such as vegetation management or bank stabilization, may be eligible for ecosystem services benefits depending on the project. These benefits occur on an annual basis over the project useful life. Ecosystem service benefits may only be used when performing a BCA to demonstrate cost effectiveness; they cannot be combined with precalculated benefits.

Wildfire mitigation projects may qualify for ecosystem services benefits if they protect an existing natural area. Applying ecosystem services benefits to wildfire mitigation projects should be evaluated on a case-by-case basis, as the design of these projects can vary widely. In general, defensible space and ignition-resistant construction projects are not likely to qualify for ecosystem services benefits. A wildfire mitigation project may not include ecosystem services benefits if:

- It does not protect at least one contiguous acre of natural space, such as a forest or grassland.
- It involves the application of chemicals or other unnatural substances.

The land cover category definitions can be found in the [FEMA Ecosystem Service Value Updates](#) report (June 2022). Any updates to values for ecosystem services benefits can be found in the BCA Toolkit and the FEMA "[Benefit-Cost Analysis](#)" webpage.

B.3.1.11. Unallowable Benefits

In general, benefits not impacted by the proposed project may not be counted in FEMA BCAs. A definitive connection must be made between the project and claimed benefits. This is especially important when using historical damage in the BCA; the project must reduce or eliminate this damage to include them.

In addition, OMB Circular A-94 guidelines also do not allow the inclusion of the following benefits:

- Employment or output multipliers intended to measure the secondary effects of government expenditures on employment and economic output.
- Anything that is considered a transfer payment may not be counted as an avoided cost. A transfer payment is the reallocation of money by means of an entity (such as the government or a homeowner) making a payment without goods or services being received in return. For example:
 - Insurance premiums.
 - Government subsidies.
 - Fines or penalties, such as Environmental Protection Agency fines.

B.3.2. Project Costs

The project cost is the denominator in the BCR equation. Any annual maintenance costs associated with the project are discounted according to the current discount rate used by FEMA over the project's useful life and added to the total project cost. The current (and any future changes made) to the discount rate will be reflected on the FEMA "[Benefit-Cost Analysis](#)" webpage.

The costs captured in the BCA must reflect the total project cost required to complete the hazard mitigation activity, not just the federal share. Similarly, some subapplicants may not request HMA up to the available federal cost share. In these cases, the BCA must still use the sum of all required (not just requested) costs necessary to achieve the hazard mitigation purpose of the project.

Management costs, as defined in this guide, may be excluded from the project cost for the purpose of the BCA.

Costs should be consistent with the project budget. Refer to [Part 6.B.2](#). Costs of a hazard mitigation project include (but are not necessarily limited to):

- Construction costs.
- Any other project-related costs, such as title searches, appraisals and permits.
- Maintenance costs specifically related to the project that are necessary to sustain the mitigation function.

- Any in-kind contributions or match from the recipient or subrecipient.

B.3.3. Risk

Hazard risk is a key factor in the benefit calculation. The Department of Homeland Security defines risk as “the potential for an unwanted outcome resulting from an incident, event, or occurrence as determined by its likelihood and the associated consequences.”¹⁵⁶

The BCA Toolkit factors in risk by calculating the likelihood of a hazard event occurring and the projected impacts of that event. The BCA Toolkit measures the likelihood of an event using recurrence intervals and calculates different impacts based on the size and severity of the hazard.

The BCA Toolkit weights higher-frequency events more than those that occur less frequently. The probabilities of future events profoundly affect whether a proposed hazard mitigation project is cost-effective.

Recurrence intervals are also location specific. The BCA Toolkit requires location information to assess risk. For example, the Midwest has a higher probability of tornadoes than the Northeast or the Pacific Northwest because that area experiences more tornadoes on an annual basis.

Additionally, risk is not always uniform across hazards within a single event. A hurricane might have windspeeds with a 200-year recurrence interval, but the storm surge might have only a 25-year recurrence interval in the same location.

Calculating risk also considers the potential consequences (or impacts) of a hazard event, which can vary based on facility type. For example, the estimated flood damage for a one-story building will typically be a larger proportion of the total building value than that of a multistory building or a building with a closed versus open foundation. Likewise, estimated deaths and injuries from a tornado are greater for individuals in mobile homes than in concrete structures. Hazard risk data can be found in the applicant’s or subapplicant’s hazard mitigation plan, including data on previous occurrences, probability (recurrence intervals) and potential consequences (impacts).

B.3.4. Economic Factors

FEMA allows for certain economic factors to be incorporated into subapplications and considered for cost effectiveness proposed, such as the discount rate and project useful life.

B.3.4.1. Discount Rate

Future benefits must be reduced because benefits that are experienced sooner are worth more. The rate at which future benefits are reduced is called the discount rate. FEMA will publish the current discount rate on the FEMA “[Benefit-Cost Analysis](#)” webpage. The discount rate is built into the calculations in the BCA Toolkit.

¹⁵⁶ [DHS Risk Lexicon](#) (Oct. 2017)

B.3.4.2. Project Useful Life

The project useful life is the estimated amount of time the project is expected to remain effective, assuming proper maintenance. In the BCA, the project useful life is the period during which the benefits are accumulated and then discounted to net present value. For example, a project with a 30-year life is assumed, on average, to produce a stream of benefits each year for 30 years. Each year's benefit is discounted to net present value and the sum of these annual benefits is the total benefits of the project. More information may be found on the FEMA "[Benefit-Cost Analysis](#)" webpage.

B.3.5. Annualized benefits and Costs

Because of the unpredictable nature of hazard events, the BCA Toolkit estimates the benefits of a hazard mitigation project on an annual basis rather than in specific years. The BCA Toolkit uses hazard frequency, damage data and project effectiveness to estimate annualized benefits.

$$\text{Annual Benefits} = \text{Annual Damages Before Mitigation} - \text{Annual Damages After Mitigation}$$

B.3.6. Documentation Requirements

Guidance on appropriate documentation for the data elements in the BCA Toolkit can be found on the FEMA "[Benefit-Cost Analysis](#)" webpage. If FEMA standard values are used when completing the BCA Toolkit inputs, no additional documentation is required. If non-standard values are used documentation is required. Documentation must be accurate and sufficiently detailed for the analysis to be validated. FEMA recommends that supporting documentation be obtained from credible sources, such as a Flood Insurance Study or a signed and stamped engineering study.

B.3.7. Subapplication Submission Requirements

When using the BCA Toolkit to demonstrate cost effectiveness, FEMA requires the submission of:

- The exported BCA file or Excel template file for the project.
- The BCA report pdf file for the project.
- All supporting documentation for the values entered in the BCA Toolkit.

For HMGP and HMGP Post Fire, the BCA documentation is required prior to FEMA approval. For BRIC and FMA, the BCA documentation is required at the time of subapplication submission unless otherwise specified in the NOFO. If BCA file submission requirements change due to a version or platform update, the information will be reflected on the FEMA "[Benefit-Cost Analysis](#)" webpage.

C. Other Considerations

Other cost effectiveness considerations include the aggregation of benefits and phased projects.

C.1. Aggregation of Benefits

Aggregation of benefits is when the benefits and costs of two or more individual structures or project components (referred to as mitigation actions in the BCA Toolkit) are strategically combined to create an average or composite BCR for a mitigation project overall. This approach allows individual structures or project components that are not cost-effective on a stand-alone basis to borrow excess benefits from cost-effective project elements or structures. Aggregation of benefits aims for optimal risk reduction while retaining project cost effectiveness with an average BCR of 1.0 or greater.

An evaluation of the cost effectiveness of a project should include all hazard mitigation activities contained in the project application's scope of work. This may include various activities in multiple jurisdictions. It may also include combining benefits derived from hazard mitigation activities associated with multiple hazards, such as wind and flood, if part of the same project. Aggregation of benefits must occur within the same HMA program and within a single subapplication (i.e., a subapplication is typically composed of multiple properties or sites and/or project types).

It is appropriate to aggregate benefits when the projects and groups within them are related in some aspect, and the project's BCR is 1.0 or greater because of aggregating benefits. Based on these criteria, many HMA projects could gain an advantage through the aggregation of benefits, although some project types, such as the aggregation of benefits in property acquisition and structure demolition projects, present more obvious opportunities than others. If the overall BCR of an aggregated project is 1.0 or greater, the project is deemed cost-effective and meets the regulatory requirements under the Robert T. Stafford Disaster Relief and Emergency Assistance Act.¹⁵⁷

The purpose of the aggregation of benefits is to increase the number of cost-effective hazard mitigation projects to maximize risk reduction in hazard-vulnerable communities. HMA encourages the consideration of aggregating benefits, as aggregation allows applicants and subapplicants to mitigate a greater number of structures or a larger area of the community than if each structure or project component were analyzed separately. In other words, aggregation of benefits expands opportunities for cost-effective hazard mitigation by efficiently distributing all existing project benefits and not leaving potential benefits on the table.

Aggregation of benefits can be implemented across jurisdictional boundaries such as county lines, state lines and watershed boundaries. Aggregation of benefits can also take place across different project types, such as aggregation of benefits for a project combining structure elevation and wind retrofit, or flood and seismic retrofits. While aggregation of benefits across multiple hazards is less common, this form of aggregation is allowable if the BCA is deemed cost-effective. Applicants and subapplicants must maintain complete documentation for each structure included in the aggregation.

While undertaking aggregation of benefits is highly encouraged, there is a potential for increased administrative oversight and project management as projects increase in complexity and geographic

¹⁵⁷ Public Law 100-707 (Nov. 23, 1988); amending the Disaster Relief Act of 1974, Public Law 93-288 (May 22, 1974)

extent. This complexity may be further increased when working across jurisdictional boundaries or project types.

Applicants and subapplicants may use project scoping, advance assistance, management costs or technical assistance funding to help address administrative and project management challenges. The [FEMA BCA Helpline](#) can also provide support and guidance with questions regarding the aggregation of benefits.

C.1.1. Aggregation of Pre-calculated Benefits – Multiple Properties within a Subapplication

Subapplications may include multiple properties that use different approaches to demonstrating cost effectiveness. Using a hybrid approach, the subapplicant may choose a subset of properties to which to apply pre-calculated benefits. The average cost of these properties must be below the designated pre-calculated benefit amount. The subapplicant would then analyze the remaining properties using the [BCA Toolkit](#) (or other FEMA-approved methodology), and the project costs and benefits for this subset would be aggregated to develop a composite BCR of 1.0 or greater. The application of excess benefits from the pre-calculated structures cannot be applied to the structure(s) being analyzed with the BCA Toolkit or any other FEMA-approved method.

C.2. Phased Projects

Phased projects are allowed under the HMGP, HMGP Post Fire, BRIC and FMA programs, and require a BCA for Phase I and Phase II. The purpose of phased projects is to provide assistance for design, engineering, environmental and historic preservation (EHP), or feasibility studies or analysis on a proposed project during Phase I. For this reason, BCAs for the Phase I subapplications should be based on the best available data and include a detailed explanation of any assumptions that went into the BCA, including any assumptions about after-mitigation (residual) damage. Phase I approval does not guarantee approval of future phases. After Phase I is completed, FEMA will complete an eligibility review that includes a cost-effectiveness determination to evaluate if the project meets all eligibility requirements to proceed to Phase II. BCAs should incorporate data from the Phase I deliverables/analysis and must reflect current site conditions and all revisions to scope and cost made to the project following Phase I analysis.

D. Cost-Effectiveness Resources



Cost-Effectiveness Resources

- OMB Circular A-94: *Guidelines and Discount Rates for Benefit-Cost Analysis of Federal Programs*: https://www.whitehouse.gov/wp-content/uploads/legacy_drupal_files/omb/circulars/A94/a094.pdf
- FEMA BCA: <https://www.fema.gov/grants/guidance-tools/benefit-cost-analysis>
- FEMA BCA Toolkit: <https://www.fema.gov/grants/tools/benefit-cost-analysis#toolkit>

Part 6. Application and Submission Information

This part provides information to HMA recipients and subrecipients about application requirements and the process for submitting applications. The following information is intended for guidance only and is not a request for information.

A. General Application and Subapplication Principles

For a subapplication to be eligible for Hazard Mitigation Assistance (HMA), the subapplicant and the applicant must provide the appropriate documentation, in the correct format, to establish eligibility. Eligibility is discussed in detail in [Part 4](#) and subapplication considerations and project scoping are discussed in [Part 3](#).

Subapplication packages are available from eligible applicants. The applicant selects and prioritizes subapplications and submits them to FEMA. HMA applications are processed through an electronic application system. The system generally encompasses the entire application process and provides the means to electronically create, review and submit an assistance application in a digital format. The applicant is required to use the electronic application system.

For the Hazard Mitigation Grant Program (HMGP) and Hazard Mitigation Grant Program Post Fire (HMGP Post Fire), the applicant may submit a single application representing all subapplications, or they may submit multiple applications. When multiple subapplications are submitted, they should be ranked in priority order. Application instructions for Building Resilient Infrastructure and Communities (BRIC) and Flood Mitigation Assistance (FMA) may be found in the appropriate year's Notice of Funding Opportunity (NOFO).

Applications and subapplications submitted to FEMA must meet all program eligibility criteria outlined in the law, regulations and the HMA Guide. FEMA does not accept incomplete or placeholder applications or subapplications. Incomplete applications or subapplications delay award or subaward approval if they do not contain sufficient information for FEMA to make a program eligibility determination.

If the subapplication is deficient, the applicant may revise or augment the subapplication in consultation with the subapplicant. Applicants must certify that they have evaluated the activities included in each subapplication and that activities will be implemented in accordance with applicable activity-type and program requirements.

Before forwarding subapplications to FEMA, applicants must review subapplications to document that:

- All program-specific and activity-specific requirements have been met and are documented, as appropriate.
- The subapplicant has documented its ability to manage the subaward assistance.
- The subapplicant has documented its ability to complete the hazard mitigation activity in the time specified.
- Non-federal cost share assistance is available and will remain available for the total duration of the subaward's period of performance.
- The maintenance requirements have been sufficiently identified, and the subapplicant or another authorized entity has accepted the maintenance responsibility.
- The underlying cost-effectiveness data are accurate and complete.
- The application includes necessary Office of Management and Budget (OMB)-approved forms, where required.

FEMA will only consider applications and subapplications submitted to a specific HMA program. If an applicant would like to have a subapplication considered under multiple HMA programs, the applicant must submit that subapplication to each HMA program separately. If selected, applications will only be funded under one program. For more information, applicants should contact the appropriate FEMA regional office. For information on FEMA contacts, refer to [Part 15.A](#).

B. Application Package and Submission

Before applying for HMA, applicants and subapplicants must complete preliminary steps required to receive any federal funding. Applicants and subapplicants must complete a [grants.gov](#) registration (including registering with the System for Award Management) by visiting the [grants.gov registration website](#). Applicants and subapplicants with existing registrations should verify their information is current and correct. Registration should remain current through the application period and period of performance.

B.1. Electronic Grants Management Systems

The FEMA Grants Management Modernization Initiative is modernizing and consolidating FEMA's grants management systems by moving away from using multiple systems (e.g., National Emergency Management Information System [commonly known as NEMIS] and eGrants). The previous grants systems' functionalities and business processes will continue to be updated and developed in the new system, FEMA Grants Outcomes (FEMA GO), and the legacy systems will be decommissioned once FEMA GO is at full operating status across all of FEMA's grant programs.

FEMA GO allows users to apply, track and manage all disaster and non-disaster grants by performing all business functions that fall within all five phases of the grants management lifecycle: pre-award,

award, post-award, closeout, and post-closeout. It also improves oversight and monitoring. For more information, refer to the “[FEMA Grants Outcomes \(FEMA GO\)](#)” webpage. To resolve any technical issues, contact the FEMA GO Help Desk at 1-877-585-3242 or femago@fema.dhs.gov.

B.2. Application Documentation and Assurance Forms

For FEMA to approve a subapplication, the subapplicant and the applicant must submit the necessary documentation. If an application lacks the eligibility information required, FEMA cannot determine eligibility and approve the application. If information is lacking, FEMA may request additional information during the review process.

The following documentation, which is needed to demonstrate eligibility, should be contained in the subapplication and application. Criteria may vary depending on the proposed activity, but applications/subapplications generally include all the elements below:

- An eligible applicant and subapplicant.
- Identification of hazard mitigation activity.
- Consistency with FEMA-approved mitigation plans.¹⁵⁸
- A scoping narrative that describes the proposed activities and their outcomes and contains the following:
 - Detailed scope of work that establishes the desired level of protection and/or risk reduction and describes the steps to complete the hazard mitigation activity.
 - Work schedule demonstrating that the activity will be completed within the period of performance for the applicable program (refer to [Part 8.G](#)).
 - Budget that supports the scope of work, including the schedule, and reflects the total activity cost.
 - Cost share information that clearly identifies the source of the non-federal cost share and establishes that the non-federal cost share meets program eligibility requirements.
 - Cost-effectiveness information (refer to exceptions in [Part 5](#)).
 - Feasibility and effectiveness information (hazard mitigation project types only).
 - Environmental and historic preservation (EHP) compliance documentation as required by EHP guidance (refer to the FEMA “[Environmental and Historic Preservation Grant Preparation Resources](#)” webpage).

¹⁵⁸ [44 Code of Federal Regulations \(CFR\) § 206.434\(c\)\(1\)](#)

- [SF-424 Family of Forms](#), as applicable:
 - Application for Federal Assistance (SF-424).
 - Budget Information for Non-Construction Programs (SF-424A).
 - Assurances for Non-Construction Programs (SF-424B).
 - Budget Information for Construction Programs (SF-424C).
 - Assurances for Construction Programs (SF-424D).
 - SF-LLL, “Disclosure of Lobbying Activities.”
- Additional documentation, as required by FEMA.

Recipients are required to use FEMA’s electronic application systems as indicated by the guidance or program NOFO. For HMGP, alternative methods may be used if they are approved by FEMA in the recipient’s HMGP Administrative Plan.

The above information, collections and forms have been incorporated into FEMA’s electronic application systems. FEMA reviews forms as often as required by OMB or more frequently if program statutes or regulations require updates. FEMA will publish updated forms on [fema.gov](https://www.fema.gov) and in electronic application systems.

B.3. Other Required Content

Supporting documentation that cannot be electronically attached to the application (e.g., engineering drawings, photographs, maps) must be submitted to the appropriate FEMA regional office. The entire application and all supporting documentation must be received by the appropriate FEMA regional office no later than the application deadline.

If a subapplicant does not use the electronic application system, the applicant must enter the paper subapplication(s) into the system on the subapplicant’s behalf prior to the application deadline.

B.4. Intergovernmental Review

[Executive Order \(EO\) 12372](#) on *Intergovernmental Review of Federal Programs* (July 14, 1982) fosters intergovernmental partnership and strengthens federalism by relying on state and local processes for the coordination and review of proposed federal financial assistance and direct federal development. The executive order allows each state to designate an entity to perform this function. If required by state or local law, the applicant must follow the procedures outlined in the state or local intergovernmental review.

Applicants may need to allow additional time for the intergovernmental review process. If an applicant has chosen not to participate in the intergovernmental review process, the application may be sent directly to FEMA.

Applicants should contact the [state single point of contact](#) to determine whether the application is subject to the state intergovernmental review process. After confirming the program's intergovernmental review eligibility, the applicant must indicate if the application is subject to review on [SF-424, Application for Federal Assistance](#).

For more information about intergovernmental review, refer to [44 Code of Federal Regulations \(CFR\) Part 4](#).

B.5. Application Submission

Submission dates and times generally vary by program. More details are outlined in the sections below.

B.5.1. Hazard Mitigation Grant Program Application Submission

HMGP submission deadlines for applications are established by FEMA based on the major disaster declaration date. The recipient should submit all subapplications within 15 months of the date of the major disaster declaration.¹⁵⁹ Subapplications must include all costs for the proposed hazard mitigation activity including subrecipient management costs.

The applicant may request an extension of the application period under certain circumstances.¹⁶⁰ For details on how to request an application period extension and the approval process, refer to [Part 10.A.10](#).

B.5.2. Hazard Mitigation Grant Program Post Fire Application Submission

States, federally recognized tribes and territories that are affected by fires for which assistance was provided under a Fire Management Assistance Grant (FMAG) declaration are eligible to apply for HMGP Post Fire. FEMA will send a formal assistance notification letter to eligible applicants with the first and each subsequent FMAG declaration. The application period opens with the state or territory's first FMAG declaration of the fiscal year and closes six months after the end of that fiscal year. The applicant may request an extension of the application period under certain circumstances. For details on how to request an application period extension and the approval process, refer to [Part 10.A.10](#).

¹⁵⁹ [44 CFR § 206.436\(d\)](#)

¹⁶⁰ [44 CFR § 206.436\(e\)](#)

B.5.3. Building Resilient Infrastructure and Communities Program and Flood Mitigation Assistance Application Submission

Application submission due dates and times are noted in the NOFO posted on [grants.gov](https://www.grants.gov). FEMA deadlines listed in the NOFO refer to application deadlines for the applicants. Subapplicants should consult with their applicant agency to confirm subapplication deadlines to the applicant, if applicable.

C. Scoping Narrative: Scope of Work, Schedule and Budget

Each subapplication must include a scoping narrative, which is a description of the proposed activities and anticipated outcomes, as a means for FEMA to determine whether the activities are eligible, whether the applicant can complete the activities within the period of performance and whether the proposed costs are reasonable.

The scoping narrative stipulates the deliverables, identifies the tasks required to complete the proposed activity, and defines the tasks to be accomplished in clear, concise and meaningful terms. It typically consists of the scope of work, schedule and budget. All activities must be identified in the scoping narrative prior to the close of the application period. The scoping narrative becomes part of the conditions of the award.

C.1. Scope of Work

The following components may be included in the scope of work. Required information may vary between construction and non-construction activities.

C.1.1. Introductory Statement

The scope of work starts with a short statement that describes the proposed activity and what will be accomplished by the end of the period of performance.

C.1.2. Activities Description

The scope of work describes the proposed approach, outcomes and level of effort, including key milestones and schedule, and each activity's relationship to the budget. The description explains how the outcome will be reached and identifies the responsible party for each task.

Other considerations that should be addressed in the activities description:

- **Geographic area(s) description and location:** Provide geographic information about the hazard mitigation activity being scoped. The description of the geographic area(s) may vary based on the hazard mitigation activity proposed and may be site specific (i.e., address and latitude/longitude to the nearest sixth decimal place) or include a description of the general area served by the proposed activity. Enter geospatial coordinates into the location section of the subapplication.

- **Hazard source(s):** The hazard source(s) refers to the hazard type(s) that will be mitigated by the mitigation activity being scoped. Identify the hazard type(s) that will be mitigated by the mitigation activity being scoped.
- **Population affected:** Identify the percentage of the population that will be affected by the proposed project. The number of people who will benefit from the proposed activity should be known for the scope of work. Divide this number by the total population to determine the percentage.
- **Need for the proposed project:** Describe past event(s) and damage history or risk assessment, if applicable. Explain how the proposed project will mitigate such damage or risk.
- **Describe how the hazard mitigation activity will be completed:** Explain the process that the subapplicant will follow to complete the hazard mitigation activity. Describe the proposed activities, including the desired level of protection and/or risk reduction, and define tasks to be accomplished. The scope of work should include key milestones. Explain who will complete the work. Include information about the procurement process that the subapplicant will follow, if applicable. Explain the proposed outcomes or deliverables. Proposed conceptual designs must be provided either through an identified industry standard or through project plans and specifications.

For non-construction activities, describe existing operations and what gaps the hazard mitigation activity is expected to address. For construction projects, describe the project site and conditions. If retrofit projects are proposed, describe how the project will tie into existing structures or facilities.

- **Technical feasibility and effectiveness (for construction subapplications):** Technical feasibility refers to the extent that the completed project will mitigate damage and losses as claimed in the subapplication. Demonstrating technical feasibility often requires providing technical documentation, which requires consultation with design professionals such as professional engineers and licensed architects. Technical documentation may be attached to the subapplication.
 - Engineering design documentation demonstrates how the proposed project will reduce risk after it is completed. Documentation may include preliminary schematic or engineering drawings, a clear explanation of design parameters that will be followed, and the level of protection. Any engineering practices or best practices proposed in the design should be explained.
 - For certain hazard types, FEMA developed design standards that must be followed for a project to be considered eligible.
 - Technical feasibility should explain any required building codes or construction codes and standards.

- **Describe who will manage the hazard mitigation activity:** Explain how the hazard mitigation activity will be managed and who is responsible for completing the project. Explain whether existing or hired staff will be used.
- **Project alternatives:** For construction projects, multiple hazard mitigation project alternatives are required as part of the subapplication. Indicate at least three alternative actions:
 - No action alternative and its consequences.
 - Alternative that was selected and why.
 - Alternative(s) that was considered but not selected and why.

The selected action alternative should pertain to the project proposed in the subapplication. Explain why it is the most practical, effective and environmentally sound alternative.

- **Long-term maintenance:** Long-term maintenance helps to ensure that a hazard mitigation project will remain effective at reducing risk beyond its initial construction and into the future. Certain types of projects will require an operations and maintenance plan. Name the entity that will perform the long-term maintenance and provide a schedule and cost information. Information on maintenance costs is likely to be contained in documentation used in the Benefit-Cost Analysis.
- **Alignment with hazard mitigation plan:** Explain how the hazard mitigation activity is consistent with the approved local or tribal mitigation plan.
- **Management costs to support grants management activities:** Describe whether the subapplicant will manage the subaward with internal staff or intends to hire a contractor/consultant to manage the effort. This item refers to the oversight of the subaward and not to the oversight of the project construction. For more information, refer to [Part 13](#).
- **Deviations from standard procedures:** Deviations from standard procedures, methods, techniques, and technical provisions of the applicable codes or best practices must be thoroughly explained and documented to determine eligibility and feasibility.
- **Hazard Mitigation activity components:** Activity-specific guidance is provided in [Part 11](#), [Part 12](#) and [Part 13](#). Applicants should review the guidance to determine what elements should be addressed in the scope of work narrative.
- **Past assistance description:** The description should summarize past assistance provided to develop subapplication and activity work plans and specifications (such as project scoping or advance assistance).

C.1.3. Personnel

The scope of work narrative identifies proposed staff and personnel requirements, describes relevant experience in managing proposed activities of federal awards, and identifies planned use of contractors and consultants.

C.1.4. Task Management

The scope of work narrative describes the methods the subapplicant will use to manage the tasks and contractors as well as to monitor and report on progress, including proposed accountability measures.

C.1.5. Ranking Factors

The scope of work explains how the activities will address the goals and objectives or ranking factors of the relevant HMA program. For BRIC and FMA, FEMA will identify assistance priorities in the NOFO announcement. For HMGP and HMGP Post Fire, the recipient may identify assistance priorities.

C.2. Schedule

The schedule includes all tasks identified in the scope of work and the relationship of each activity for the budget. The schedule identifies major milestones with target dates for meeting each milestone, including anticipated quarterly usage of federal assistance. Proposed schedules must not exceed the period of performance for the award. The applicant and subapplicant must provide sufficient detail so that FEMA can determine whether the proposed activities can be accomplished within the period of performance.

The schedule should specify the duration of each process component required to complete the project. Although the components' occurrences are not necessarily sequential and activities may be carried out concurrently, the total timeline cannot exceed the period of performance.

C.3. Budget

The budget should match the proposed level of effort from the scope of work and work schedule.

All cost elements must match tasks and provide sufficient detail for FEMA to determine whether the subapplication is eligible. The budget should include consideration regarding cost share, pre-award costs, closeout, format and contingency costs. Ineligible formats, such as lump sum estimates, are not eligible and will not be accepted.

Budgets must include cost item categories such as personnel (labor) and fringe benefits, travel, equipment, supplies (materials), contractual, construction, other pre-award costs, contingencies, program income and management costs. The budget should be supported with a budget narrative

and documentation to support the basis of the estimate and substantiate that the budget is reasonable. Costs must be in accordance with applicable cost principles.¹⁶¹

The budget is essential for understanding if the requested costs are allowable (allocable, necessary and reasonable).

C.3.1. Budget Documentation

The budget documentation should indicate the method(s) used to determine the hazard mitigation activity costs (e.g., the estimate was prepared by a consultant, previous assistance was used to inform the estimate). Costs must be associated to each applicable cost category(s). All costs must be detailed and not contain lump sums. The budget must include a line-item breakdown of costs consistent with all elements described in the scope of work and schedule information. Subapplicants should provide a budget narrative with explanations, justifications and line-item details of the costs. The budget narrative should explain how costs were derived and include details not in the line items.

The budget generally includes:

- **Personnel (labor) and fringe:** The number of personnel, number of hours per quarter, average pay rate and fringe benefit rates.
- **Travel:** A breakdown of travel costs, such as the type of transportation, lodging, mileage, per diem rates and estimated description of travel needs. Describe the travel involved and its purpose and explain how the proposed travel is necessary for the activity. If travel details are unknown, explain the basis for proposed costs. Lump-sums will not be accepted.
- **Equipment:** A list of equipment and the intended use of the equipment.¹⁶² Provide a lease versus purchase analysis for each item with a value greater than the recipient's or subrecipient's capitalization level or \$10,000, whichever is more restrictive.¹⁶³ Provide a copy of each rental agreement and pricing.
- **Supplies/materials:** A unit cost estimate for each major component or element.¹⁶⁴
- **Contractual support:** The estimate must be supported by a method of selection (e.g., competitive, sole source with justification, sealed bids, small purchase or micro-purchase), request for proposal/scope of work, period of performance, criteria for measuring accountability, bid documents or contract. If bids have not been received, the applicant/subapplicant may submit an independent cost estimate.

¹⁶¹ [2 CFR Part 200, Subpart E](#)

¹⁶² Refer to [2 CFR § 200.1](#) for the definition of equipment.

¹⁶³ [2 CFR § 200.318\(d\)](#)

¹⁶⁴ Refer to [2 CFR § 200.1](#) for the definition of supplies.

- **Construction:** The estimate should include administrative and legal expenses; land, structure, right-of-way and appraisals; relocation expenses and payments; architectural and engineering fees; inspection fees; site work; demolition and removal; and other construction costs.
- **Other:** Information in narrative form on how costs were identified.
- **Pre-award:** All pre-award costs must be noted in separate line items—including the date the cost was incurred, and a narrative description of the task completed. For more information regarding pre-award costs, refer to [Part 3](#).
- **Contingencies:** An allowance in the total budget to cover situations that cannot be fully defined when the budget is prepared but that will likely result in additional eligible costs. If contingency costs are requested, include them as a line item in the budget section of a subapplication. As with other line items in the budget, the subapplicant should justify the contingency estimate based on the nature of the proposed activity. For more information regarding contingencies, refer to [Part 8](#).
- **Program income:** Anticipated program income must be identified in the budget.¹⁶⁵
- **Management costs:** Direct administrative and indirect costs are only eligible as management costs. Subrecipients must identify management costs in the budget as a separate line item, supported by a schedule and narrative describing personnel and fringe benefits, travel, equipment, supplies, contractual, indirect costs and other management costs expenses.
- **Strategic funds management:** For activities greater than or equal to \$1 million, strategic funds management may apply. For details on strategic funds management, refer to [Part 8](#). Both the activity and management costs are subject to strategic funds management requirements. The applicant or subapplicant must develop their financial plan along with the work schedule for the hazard mitigation activity by budget (or fiscal) year and include a roll-up of all budget years. The schedule and applicable budget year budget should support incremental obligations as each activity milestone is reached. If the applicant or subapplicant determines that strategic funds management is not feasible for the activity, a narrative explaining the rationale shall be provided.

In addition to the budget, the applicant must identify the cost categories and value for anticipated cash and third-party in-kind contributions for meeting the non-federal cost share.

FEMA accepts estimated costs when they are:

- Prepared by a licensed professional engineer or other estimating professional, such as a licensed architect or certified professional cost estimator, who certifies that the estimate was prepared in accordance with industry standards.

¹⁶⁵ Refer to [2 CFR § 200.1](#) for the definition of program income.

- Based on unit costs for each component of the scope of work and not a lump-sum amount.
- Of sufficient detail for FEMA to validate that all components correspond with the scope of work.
- Based on the current phase of design or construction inclusive of any known costs.
- Inclusive of actual costs for work completed at the time the cost estimate is developed.
- Reasonable.

When estimated cost data does not provide enough detail for FEMA to complete an analysis, the agency may issue a Request for Information (RFI) to the applicant for additional information or clarification.

C.3.2. Non-federal Funding Share

The budget must include a list of all sources and amounts used in the non-federal share, including all third-party in-kind contributions.¹⁶⁶ FEMA will not reimburse any in-kind contributions above the required non-federal share. If any portion of the non-federal share comes from nonapplicant sources (e.g., donated services, private donation), the applicant must attach letters of funding commitment for each non-applicant source.¹⁶⁷

D. Cost-Effectiveness Documentation

For details on cost-effectiveness documentation (for hazard mitigation project types only), refer to [Part 5](#).

E. Feasibility and Effectiveness Documentation

FEMA will use the information provided in the subapplication—including the scope of work, the budget and supporting documentation—to determine the feasibility and effectiveness of the proposed hazard mitigation project (for hazard mitigation project types only).

FEMA accepts the engineering design for a project if a licensed professional engineer (or other professional licensed by the state to practice in the discipline being certified by the individual) certifies that the design meets the appropriate code or industry design and construction standards. FEMA will accept the certified engineering design in lieu of a comprehensive technical feasibility review. Specific design and construction standards are included by project type in [Part 12](#). If accepted codes/standards are used, no additional documentation is required. The application must include the codes or standards that will be used for the design and the version and date of the codes or standards used.

¹⁶⁶ Refer to [2 CFR § 200.1](#) for the definition of third-party in-kind contributions.

¹⁶⁷ [2 CFR § 200.306](#)

If an alternative design is proposed, the application and subapplication should contain:

- Applicable building code/edition or engineering standard used.
- Level of protection provided by the proposed project and description of how the proposed activity will mitigate future losses.
- For the retrofit of existing buildings or infrastructure protection projects, an assessment of the vulnerabilities of the existing building.
- Any remaining risk to the structure after project implementation.
- Proposed schematic drawings or designs (as applicable).

Project subapplications lacking the appropriate documentation to support the determination of feasibility and effectiveness may be removed from consideration. Upon request, FEMA will provide technical assistance regarding engineering documentation. If factors related to an increase in expected natural hazard risk are included in the analysis, the studies or reports documenting the increased risk and how it was applied to the project design must be included and document how the project effectiveness was calculated.

F. Environmental and Historic Preservation Documentation

Applicants and subapplicants are required to provide information to support the FEMA EHP compliance review. FEMA, in consultation with appropriate federal and state resource agencies, will use the information provided in the application/subapplication, including the scope of work and project budget, as well as any supporting documentation, to ensure compliance with EHP requirements.

FEMA reviews the completeness of the responses to the questions in the EHP review section of the project subapplication and any supporting documentation. HMA project subapplications must include the required information for each property identified in the subapplication and a detailed scope of work. Information needs include clearly labeled maps, photographs of buildings, ages of all buildings and structures, and copies of any coordination letters with other agencies. FEMA uses this information to complete and document the EHP review process. A lack of information may delay the identification of outstanding EHP compliance requirements and project implementation. Also, failing to provide the required information by the application deadline may prohibit FEMA from making an award or subaward.

F.1. Environmental and Historic Preservation Checklist

The applicant and subapplicant should ensure the project scope of work considers all potential EHP compliance issues and costs. To assist in preparing the subapplication, the applicant/subapplicant

must complete the EHP Checklist and provide information and documentation about potential impacts on the pertinent environmental and cultural resources in the project area. The documents on the FEMA “[Environmental & Historic Preservation Grant Preparation Resources](#)” webpage detail the information the agency needs to carry out an EHP review by project type. Any relevant information, surveys or studies related to EHP considerations identified and addressed in previous project planning activities should also be provided and may be used to satisfy the EHP compliance requirements at FEMA’s discretion.

Using the EHP Checklist, the applicant/subapplicant will identify applicable information that must be provided to FEMA, such as a complete scope of work narrative, documentation, maps, studies or correspondence related to:

- **Biological resources:** Any identified federally listed threatened and endangered species and/or designated critical habitats potentially affected by the proposed project.
- **Water and biological resources:** Vegetation, including amount (area), type and extent to be removed or affected.
- **Water resources:** Identification of all surface waters in the project area regardless of drainage area, size or perceived hazard level. Information about surface waters should include dimensions, the proximity of the project activity to the water and the expected and possible impacts of the proposed project on surface waters, if any.
- **Coastal resources:** Indication of whether the proposed project is located in a state’s designated coastal zone or within a Coastal Barrier Resource System Unit or Otherwise Protected Area.
- **Pollution control and debris management:** Identification of any hazardous or toxic materials that will affect the project, including studies, investigations or enforcement actions related to the proposed project’s location.
- **Historic or cultural resources:** The property address; the original date of construction; and at least two (2) color photographs for any buildings, structures, objects, or man-made site/landscape features 45 years or older in age. At least one of the two photographs of a building should be the front or primary façade showing the building’s entire elevation.

The EHP Checklist in [Table 5](#) outlines necessary items for EHP compliance. Additional items may be required. Any items marked with a “yes” in the EHP Checklist must be further described in the project subapplication. This checklist has been incorporated into the electronic application system for BRIC and FMA. For the most current information, refer to the FEMA “[Environmental & Historic Preservation Grant Preparation Resources](#)” webpage.

Table 5: Environmental and Historic Preservation Checklist

Environmental Regulation or Statute		Yes	No
National Historic Preservation Act			
1.A	Would the proposed project affect, or is the proposed project near, any buildings or structures 45 years or more in age?		
1.B	Will the proposed project involve disturbance of ground?		
Endangered Species Act			
2.A	Are federally listed or endangered species, or their critical habitat, present in or near the project area and, if so, which species are present?		
2.B	Will the proposed project remove or affect vegetation?		
2.C	Is the proposed project in, near (within 200 feet), or likely to affect any type of waterbody or body of water?		
Clean Water Act and Rivers and Harbors Act			
3.A	Will the proposed project involve dredging or the disposal of dredged material, excavation, the addition of fill material, or result in any modification to water bodies or wetlands designated as “waters of the United States” as identified by the U.S. Army Corps of Engineers or any water bodies or wetlands in the National Wetland Inventory?		
Executive Order 11988 (Protection of Floodplains) and Executive Order 11990 (Protection of Wetlands)			
4.A	Does a Flood Insurance Rate Map, Flood Hazard Boundary Map, hydrological study or some other source indicate that the project is located in or will affect a 1% annual chance floodplain, a 0.2% annual chance floodplain (if a critical action), an identified regulatory floodway or an area prone to flooding?		
4.B	Is the proposed project located in, or will it affect, a wetland as listed in the National Wetland Inventory?		
4.C	Will the proposed project alter a watercourse, water flow patterns, or a drainage way, regardless of its floodplain designation?		
4.D	Is the proposed project located in, or will it affect, a floodplain or wetland? If yes, the eight-step process summarized in HMA job aids must be completed.		
Coastal Zone Management Act and Coastal Barrier Resources Act			
5.A	Is the proposed project located in the state’s designated coastal zone?		
5.B	Is the proposed project located in a Coastal Barrier Resources System Unit or Otherwise Protected Area?		

Environmental Regulation or Statute		Yes	No
Farmland Protection Policy Act			
6.A	Will the proposed project convert more than five acres of “prime or unique” farmland outside city limits to a non-agricultural use?		
Resource Conservation Recovery Act and Comprehensive Environmental Response, Compensation, and Liability Act			
7.A	Is there reason to suspect there are contaminants from a current or past use on the property associated with the proposed project?		
7.B	Are there any studies, investigations or enforcement actions related to the property associated with the proposed project?		
7.C	Will any project construction or operation activities involve the use of hazardous or toxic materials?		
7.D	Are any of the current or past land uses of the property associated with the proposed project or are any of the adjacent properties associated with hazardous or toxic materials?		
Other Environmental/Historic Preservation Laws (Including Applicable State Laws) or Issues			
9.A	Are other environmental/historic preservation requirements associated with this project?		
9.B	Are any controversial issues associated with this project?		
9.C	Have any public meetings been conducted, or public comment solicited, on the proposed project?		

FEMA may identify additional EHP compliance review activities necessary to facilitate project approval, such as the completion of environmental assessments, environmental impact statements, Phase I environmental site assessments, biological assessments, archeological or standing structures surveys and documentation, wetlands delineations, and air quality conformity analyses or determinations. The [Section 106 Process under the National Historic Preservation Act](#) FEMA job aid describes specific decision points made by FEMA during the Section 106 review process. The [NEPA Flowchart for HMA Projects](#) FEMA job aid describes how FEMA decides if an environmental assessment or an environmental impact statement is needed for compliance with the National Environmental Policy Act.¹⁶⁸

Unanticipated costs and delays may occur if, during the formal EHP compliance review, FEMA identifies an award condition (e.g., acquiring permits, timing restrictions) or scope change necessary for the project to remain in compliance with EHP laws or determines that a project will adversely impact an environmental or cultural resource. FEMA resolves adverse impacts to environmental or cultural resources through consultation processes that may involve federal and state agencies,

¹⁶⁸ Public Law 91-190 (Jan. 1, 1970), [42 U.S.C. § 4321](#)

federally recognized tribes and/or external stakeholders. The exact outcome of the consultation, and therefore the costs and time to resolve the impacts, will not be known until after project selection and consultation have concluded. The HMA programs have the discretion to determine, on a project-by-project basis, whether FEMA or the applicant and subapplicant will provide assistance for EHP mitigation measures to resolve adverse impacts.

Applicants and subapplicants may incur costs for significant EHP compliance review activities and/or EHP mitigation measures. FEMA will consider the following factors to determine whether to reimburse costs:

- Nature of the analysis or study required (e.g., environmental impact statement) and the degree to which the activity is related to accomplishing the mitigation goals.
- Costs of EHP activities compared to project costs.
- Complexity of the proposed project.
- Nature and extent of potential adverse impacts to environmental, cultural and/or historic resources.

Applicants should consider potential EHP costs during application development and submission and should seek to avoid activities that may negatively impact EHP resources. FEMA may remove projects from consideration for full approval and/or assistance when EHP compliance review activities are not progressing and the applicant/subapplicant has not dedicated resources and/or provided required and requested documentation in a timely manner. For more information, visit the FEMA “[Environmental Planning and Historic Preservation](#)” webpage, contact the appropriate FEMA regional office.

G. Requests for Information

If a subapplication does not meet the administrative or procedural information requirements, FEMA may request additional information in the form of a formal RFI. The request will detail additional information or documentation needed to satisfy outstanding administrative, procedural, program, technical or EHP requirements. RFIs can take various forms, including email requests, documented telephone calls or formal letters. Applicants are responsible for coordinating with the subapplicant to get the required information. Failure to provide the requested information by the final deadline identified in the request may result in denial if eligibility cannot be determined. Technical assistance may be available if requested.

G.1. Request for Information Timelines

[Table 6](#) provides timelines for information requests and assistance offers. The subapplication review process involves an eligibility review to determine whether the subapplication and subapplicant are eligible. Then a completeness review is conducted to determine whether a complete subapplication

was submitted. If the subapplication is determined to be incomplete, FEMA may request further information from the subapplicant.

At each step of the RFI subapplication review process, FEMA will work with the applicant to determine available options to develop a viable activity. Some options include technical assistance from FEMA or implementing a phased activity. If the FEMA regional administrator does not receive the requested information before the deadline, the activity may be denied, as the agency will have no basis to make an eligibility determination. Upon receipt of the requested information and confirmation that it adequately addresses the RFI, FEMA will determine activity eligibility.

Table 6: Request for Information Timelines

Request Format	Timeline
Informal – First Request	The FEMA project officer requests additional information from the applicant in writing. FEMA may provide technical assistance, if requested, to help the applicant respond to the RFI and set a new time frame for the applicant’s response. Depending on the HMA program, the applicant may consider phasing the project if it is feasible to do so. If the requested information is not received within 30 calendar days from the date of the request, FEMA will consider the application to be incomplete and not approvable and will proceed with the process below to send an informal second request.
Informal – Second Request	The FEMA hazard mitigation branch chief requests additional information in writing. If the requested information is not received within 14 calendar days from the date of the request, FEMA will consider the application to be incomplete and not approvable. FEMA may provide technical assistance, if requested. FEMA, recipient and applicant staff should meet to resolve any open items within the allotted time frame, if necessary.
Formal Request	In a formal letter to the applicant, the FEMA regional administrator requests additional information and documents previous requests. The information must be submitted within 30 calendar days.
Formal Denial	If the FEMA regional administrator does not receive the requested information from the formal request within 30 calendar days, FEMA considers the subapplication to be incomplete and therefore ineligible for assistance. FEMA sends a formal denial letter at that time.

If the FEMA regional administrator determines additional time is needed to address the requirement, they may choose to allow more time for an RFI. FEMA encourages subapplicants to coordinate early with the applicant to identify potential technical assistance needs. If technical data is not readily available, the subapplicant should coordinate with the applicant to determine whether the project should be phased to develop the required data. Applicants may contact their FEMA regional office to request technical assistance, relevant training or other needed support.

The Request for Information process is outlined in [Figure 6](#).

Request for Information Process

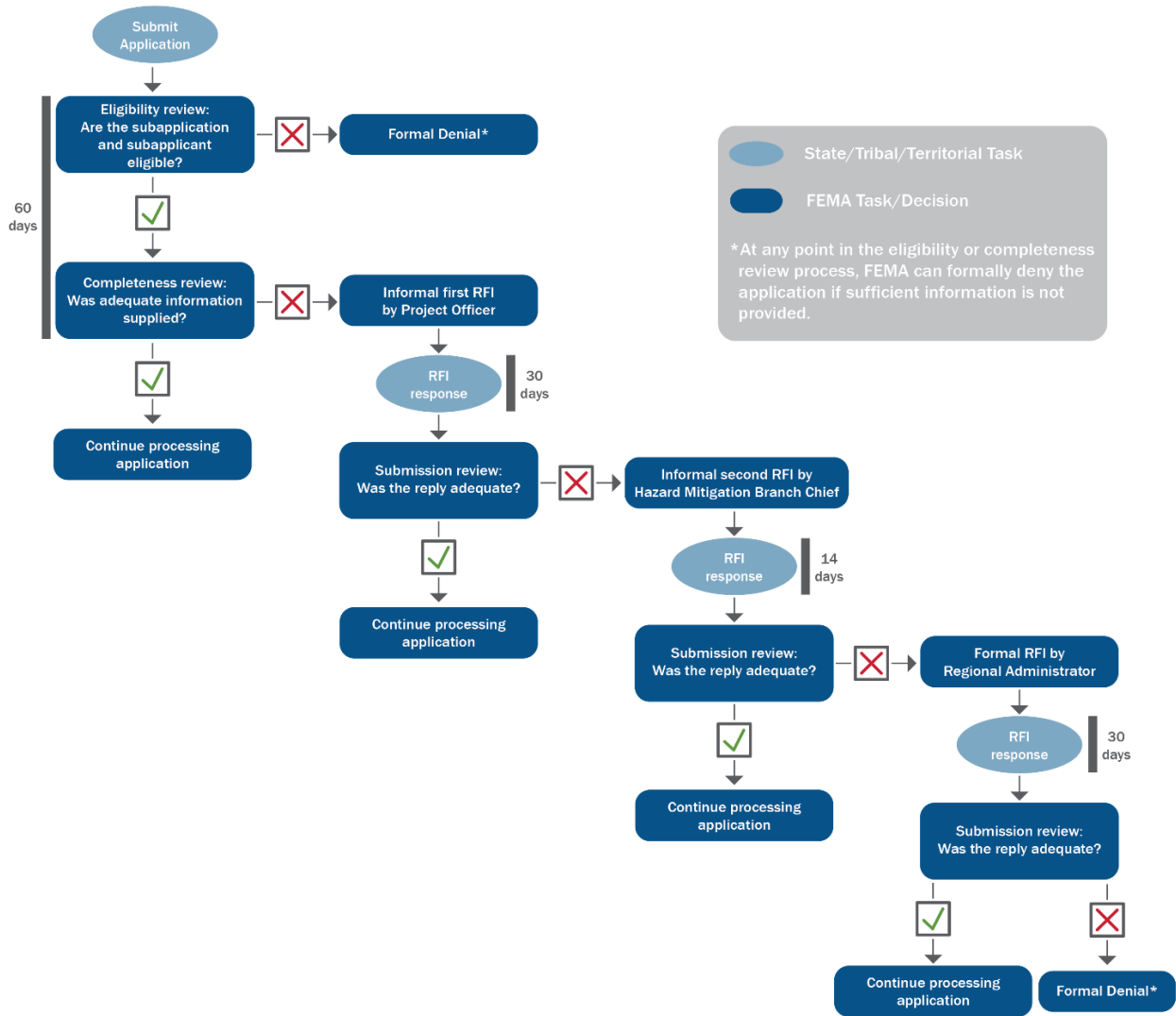


Figure 6. Request for Information Process Flowchart

H. Application and Submission Information Resources



Application and Submission Information Resources

- Grants.gov registration: <https://www.grants.gov/register>
- FEMA GO: <https://www.fema.gov/grants/guidance-tools/fema-go>
- SF-424, *Application for Federal Assistance* <https://www.grants.gov/forms/forms-repository/sf-424-family>

- State Single Point-of-Contact (SPOC) List: <https://www.whitehouse.gov/omb/office-federal-financial-management/>
- Environmental & Historic Preservation Guidance for FEMA Grant Applications: <https://www.fema.gov/grants/guidance-tools/environmental-historic>
- Environmental & Historic Preservation Grant Preparation Resources: <https://www.fema.gov/grants/guidance-tools/environmental-historic/preparation-resources>

Part 7. Award Selection and Notification

A. Award Selection

Applicants select the subapplications to submit to FEMA. FEMA only reviews subapplications submitted by the applicant. For the Hazard Mitigation Grant Program and the Hazard Mitigation Grant Program Post Fire program, subapplications are reviewed on a continuous basis and are awarded if eligible. The evaluation criteria and review processes for Building Resilient Infrastructure and Communities (BRIC) and Flood Mitigation Assistance (FMA) programs are outlined in their yearly Notice of Funding Opportunity (NOFO).

B. Applicant Award Notification

During the application selection process for BRIC and FMA, FEMA will notify applicants whether subapplications have been identified for further review, potentially eligible but not selected, or determined ineligible for assistance. A determination of “identified for further review” is not a notification or guarantee of an award. FEMA will work with applicants on subapplications identified for further review. Applicants will be notified of required activities such as an environmental and historic preservation (EHP) review, verification of subapplicant commitments, and/or verification of hazard mitigation plan status, as well as the date by which all required activities must be completed.

FEMA may provide comments on subapplications determined to be ineligible in order for subapplicants to modify their subapplications for resubmission in future assistance cycles.

B.1. Applicant Award Package

FEMA will provide an award package to the recipient for approved work under the federal award. Subapplicants will receive notice of award from the applicant.

The applicant award package for HMA programs generally includes:

- An award letter.
- An obligation report.
- Terms and conditions.
- EHP award conditions.
- Other conditions/compliance documentation.

Applicants and subapplicants must review the EHP award conditions included in the award package for awareness and understanding. For more information about conditions, refer to [Part 3](#). Failure to comply with EHP award conditions may jeopardize assistance.

When the applicant or subapplicant accepts an award, they are denoted as the recipient and subrecipient, respectively. The recipient and subrecipient agree to abide by the federal award terms and conditions as outlined in the award package.

B.2. Large Project Notification

Large project notification is the process by which FEMA notifies Congress of any obligations of \$1 million federal share or greater before obligating an award.

C. Appeal Process for Denied Subapplicants

Applicants and subapplicants can appeal denied subapplications. This process is covered in program-specific detail in [Part 10](#).

C.1. Consideration of Additional Information

FEMA may, at its discretion, notify applicants that it will consider additional information in support of a subapplication. FEMA will accept supplemental or corrected data in support of a subapplication when submitted subapplications do not exhaust available program assistance or when determined appropriate by the program office. Instructions for submitting supplemental information will be provided within the FEMA notification letter, if applicable.

Part 8. Award Administrative Requirements

This part of the Hazard Mitigation Assistance (HMA) Guide discusses how successful recipients and subrecipients will receive award information and assistance. Additionally, this part describes administrative requirements from the time an award is made through closeout and the maintenance actions that must occur after an activity is complete.

A. Efficient and Effective Grants Management for Recipients

Before applying for a grant opportunity, applicants and subapplicants should commit to practicing efficient grants management and complete activities in a timely manner. Efficient grants management supports the delivery of the Federal Emergency Management Agency's (FEMA) programs.

Efficient grants management includes:

- Submitting complete applications.
- Submitting all subapplications prior to the close of the application period.
- Conducting monitoring and performance tracking of expenditures within the period of performance.
- Submitting quarterly progress and financial reports on time.
- Ensuring the completion of appropriate environmental and historic preservation (EHP) documentation and actions, as applicable.
- Finishing hazard mitigation activities before the end of the period of performance.
- Submitting final progress and financial reports on time.
- Closing the award in a timely manner.
- Maintaining fiscal responsibility.
- Complying with the terms and conditions of the award (including FEMA-state and FEMA-tribal agreements).
- Ensuring there are trained staff who understand the program and provide technical assistance to the subrecipients.

B. Responsibilities of Recipients

After FEMA approves the subapplications and awards assistance, the agency transfers assistance to the applicant who, during the award stage, is referred to as the recipient (state, tribe or territory). Therefore, the applicant becomes the recipient and is generally referred to as a pass-through entity. The recipient receives the money and passes it on to the subrecipient. Because recipients/pass-through entities manage the award and subawards provided to their subrecipients, they have additional responsibilities.¹⁶⁹

All pass-through entities (recipients) must:

- Verify that the subrecipient is not excluded or disqualified in accordance with 2 CFR § 180.300. Verification methods are provided in 2 CFR § 180.300, which include confirming in SAM.gov that a potential subrecipient is not suspended, debarred, or otherwise excluded from receiving Federal funds.¹⁷⁰
- Ensure every subaward is clearly identified to the subrecipient as a subaward and includes all information required. It must provide the best available information when some of the required information is unavailable and provide the unavailable information when it is obtained. Required information includes:¹⁷¹
 - Federal award identification:
 - Subrecipient's name (must match the name associated with its unique entity identifier).
 - Subrecipient's unique entity identifier.
 - Federal Award Identification Number (FAIN).
 - Federal award date.
 - Subaward period of performance start and end date.
 - Amount of federal funds obligated in the subaward.
 - Total amount of federal funds obligated to the subrecipient by the recipient, including the current financial obligation.
 - Total amount of the federal award committed to the subrecipient by the recipient.

¹⁶⁹ Recipients may have additional roles and responsibilities as outlined in the respective regulations or Notices of Funding Opportunities governing each program. For example, refer to [44 Code of Federal Regulations \(CFR\) § 206.433](#) for the Hazard Mitigation Grant Program and [44 CFR § 77.3](#) for the Flood Mitigation Assistance program.

¹⁷⁰ [2 CFR § 200.332\(a\)](#)

¹⁷¹ [2 CFR § 200.332\(b\)](#)

- Federal award project description, as required by the Federal Funding Accountability and Transparency Act (FFATA).
- Name of the federal agency (FEMA), name of the recipient, and contact information for the awarding official of the recipient.
- Assistance listings title and number; the recipient must identify the dollar amount made available under each federal award and the assistance listings number at the time of disbursement.
- Indirect cost rate for the federal award.
- All requirements of the subaward, including requirements imposed by federal statutes, regulations, and the terms and conditions of the federal award.
- Any additional requirements that the recipient imposes on the subrecipient for the recipient to meet its responsibilities under the federal award. This includes information and certifications (refer to 2 CFR § 200.415) required for submitting financial and performance reports that the recipient must provide to FEMA.
- A requirement that the subrecipient permit the recipient and auditors to access the subrecipient's records and financial statements for the recipient to fulfill its monitoring requirements.
- Appropriate terms and conditions concerning the closeout of the subaward.
- Evaluate each subrecipient's fraud risk and risk of noncompliance with a subaward to determine the appropriate subrecipient monitoring described in [2 CFR § 200.332\(f\)](#).¹⁷²
- If appropriate, consider implementing specific conditions in a subaward as described in [2 CFR § 200.208](#) and notify FEMA of the specific conditions.¹⁷³
- Monitor the activities of a subrecipient as necessary to ensure the subrecipient complies with federal statutes, regulations, and the terms and conditions of the subaward, and that the subaward performance goals and objectives are achieved. In monitoring a subrecipient, a pass-through entity must:¹⁷⁴
 - Review financial and progress reports.¹⁷⁵

¹⁷² [2 CFR § 200.332\(c\)](#)

¹⁷³ [2 CFR § 200.332\(d\)](#)

¹⁷⁴ [2 CFR § 200.332\(e\)](#)

¹⁷⁵ [44 CFR § 206.438\(c\)](#); [2 CFR § 200.332\(e\)\(1\)](#)

- Submit quarterly reports to FEMA on time.¹⁷⁶
- Ensure that the subrecipient takes corrective action on all significant developments that negatively affect the subaward, which may include audit findings, site visits and written notifications from a subrecipient of adverse conditions which will impact their ability to meet the milestones or the objectives of a subaward.¹⁷⁷
- Issue a management decision for audit findings as required.¹⁷⁸
- Resolve audit findings specifically related to the subaward.¹⁷⁹
- Verify that every subrecipient is audited, as required by [2 CFR Part 200](#), when it is expected that the subrecipient’s federal subawards expended during the respective fiscal year equaled or exceeded the threshold set forth in audit requirements.¹⁸⁰
- Consider whether the results of a subrecipient’s audit, site visits or other monitoring necessitate adjustments to the pass-through entity’s records.¹⁸¹
- Consider taking enforcement action against noncompliant subrecipients.¹⁸²

C. Assessment of Risk Posed by Recipient and Subrecipient Prior to Award

Prior to making an award, FEMA will evaluate a recipient to determine the level of risk when there is a history of failure to comply with general or specific terms and conditions of a federal award or failure to meet the expected performance goals. Some elements that FEMA will review include financial stability, quality of management systems, history of performance (including compliance with reporting requirements), conformance to the terms and conditions of previous awards, reports and findings from prior audits, and the ability to effectively implement statutory, regulatory and other program requirements imposed on the recipient. If FEMA determines that a federal award will be made, special conditions that correspond to the degree of risk assessed may be applied to the award.¹⁸³

As part of the risk assessment, FEMA is required by the Improper Payments Elimination and Recovery Improvement Act of 2012¹⁸⁴ to review information available through any Office of

¹⁷⁶ [2 CFR 200.328\(c\)](#); [2 CFR 200.329\(c\)\(1\)](#); [2 CFR 200.332\(e\)](#)

¹⁷⁷ [2 CFR § 200.332\(e\)\(2\)](#)

¹⁷⁸ [2 CFR § 200.521](#); [2 CFR § 200.332\(e\)\(3\)](#)

¹⁷⁹ [2 CFR § 200.332\(e\)\(4\)](#)

¹⁸⁰ [2 CFR § 200.501](#); [2 CFR § 200.332\(g\)](#)

¹⁸¹ [2 CFR § 200.332\(h\)](#)

¹⁸² [2 CFR § 200.339](#); [2 CFR § 200.332\(i\)](#)

¹⁸³ [2 CFR § 200.206\(b\)\(1\)](#)

¹⁸⁴ Public Law 112-248 (Jan. 10, 2013)

Management and Budget-designated repositories of government-wide eligibility qualification or financial integrity information as appropriate.¹⁸⁵ FEMA must also review a recipient's status in the System for Award Management. FEMA must comply with government-wide suspension and debarment regulations and require that recipients and subrecipients comply with these requirements.¹⁸⁶ Recipients must also conduct risk assessments of their subrecipients.¹⁸⁷

If a recipient determines a particular risk associated with a subrecipient, the recipient may impose additional conditions or requirements.¹⁸⁸ If additional conditions and requirements are imposed, FEMA must promptly remove them once the conditions that prompted the additional conditions or requirements have been satisfied.¹⁸⁹

For HMA programs, additional conditions or requirements may include:

- Requiring payments as reimbursement rather than advance payments.
- Withholding authority to proceed to the next phase until receipt of evidence of acceptable progress within a given period of performance is provided.
- Requiring additional, more detailed financial reports.
- Requiring additional monitoring.
- Requiring the recipient or subrecipient to obtain technical or management assistance.
- Establishing additional prior approvals, such as requiring the preparation of a management plan.

For those recipients that receive assistance from FEMA regularly, designated staff shall complete the risk assessment annually at the beginning of the fiscal year. For other recipients, the assessment will be completed at the time of application review and then annually until the period of performance has ended.¹⁹⁰

Recipients can request reconsideration of the specific conditions using the appeal or reconsideration process described in [Part 10](#). If the appeal or reconsideration is successful, or if the circumstances that prompted imposing specific conditions have been corrected, FEMA must remove specific conditions.

Refer to [Part 10](#) for more information on program-specific appeals or reconsiderations.

¹⁸⁵ [31 United States Code \(U.S.C.\) § 3321, note, 41 U.S.C. § 2313](#)

¹⁸⁶ [2 CFR § 200.206\(d\)](#)

¹⁸⁷ [2 CFR § 200.332\(c\)](#)

¹⁸⁸ [2 CFR § 200.208](#)

¹⁸⁹ [2 CFR § 200.208\(e\)](#)

¹⁹⁰ [2 CFR § 200.206](#)

D. Incremental Obligations

Incremental obligations are used to provide funding based on a subrecipient's schedule(s) to execute eligible work and are applicable to all HMA programs. FEMA will use the project work schedule and work with recipients and subrecipients to determine the appropriate frequency of incremental obligations.

There are many types of incremental obligations. The type of incremental obligation used is dependent on the project's federal cost share and the type of costs being obligated.

Effective use of incremental obligations supports:

- Enabling obligations for individual project components as approved.
- Reducing the number of unexpended obligations and decreasing the potential for deobligation.
- Avoiding restrictions on hazard mitigation assistance that may occur under Immediate Needs Funding.¹⁹¹
- Promoting fiscal responsibility and better project management by providing incremental obligation as project milestones are completed.

Projects with a federal share of less than \$1 million receive incremental obligation based on a variety of factors, such as environmental review, overall risks, and complex technical reviews, including:

- Instances where distinct portions of a project require different levels of environmental review and the awarded portions of the project remain technically feasible and cost-effective.
- If, after evaluating the risks posed by applicants, FEMA determines that specific conditions to the award are merited.¹⁹²
- Projects with iterative or phased technical reviews.

Projects with a federal share equal to \$1 million or greater receive incremental funding based on the schedule to execute the scope of work. Strategic funds management is a tool for HMGP and HMGP Post Fire that can be used to incrementally obligate these subawards. More information about strategic funds management determinations can be found in [Part 8.D.1](#).

Management costs receive incremental funding based on annual obligations.

¹⁹¹ Immediate Needs Funding is implemented to preserve assistance in the Disaster Relief Fund for the immediate needs of current or future disasters.

¹⁹² [2 CFR § 200.206\(c\)](#)

D.1. Strategic Funds Management for HMGP and HMGP Post Fire

Strategic funds management is a budgetary tool for obligating assistance in increments based on the recipient's and subrecipient's schedule to execute the scope of work for subawards with a federal share equal to \$1 million or greater. This tool is only applicable for HMGP and HMGP Post Fire programs.

Recipients applying under these two programs are required to review all subawards with a federal share equal to \$1 million or greater to determine whether they are suitable candidates for strategic funds management. Applicants and subapplicants are encouraged to consider FEMA's use of strategic funds management early in the decision-making process to help facilitate the development of a feasible budget and appropriate activity milestones. FEMA will work with applicants to document the evaluation of individual subapplications and (if needed) justification for not using strategic funds management.

Strategic funds management does not change the activity eligibility. Instead, this process serves as a method of monitoring progress and providing funding assistance as needed.

Strategic funds management is not:

- Used to avoid large project notification requirements.
- Meant exclusively to determine a schedule for obligations.
- FEMA's only type of incremental funding.

If an HMGP or HMGP Post Fire recipient selects a subaward for strategic funds management, the recipient will work with the subrecipient to determine whether the subaward needs to be revised to adjust budgets and schedules of work.

FEMA and the recipient must capture the proposed obligation schedule in the electronic application system. The work schedule should include the time frame for anticipated subsequent obligations. Obligations are executed in increments based on the subrecipient's work schedule until the scope of work is completed.

The recipient is responsible for notifying the subrecipient that assistance is available and for distributing the assistance to the appropriate subrecipient. Obligated FEMA assistance is available to the recipient to pass through to the appropriate subrecipient.

The recipient's decision, in collaboration with FEMA, to use strategic funds management (including the timing and execution of the obligation action by FEMA) is not subject to appeal.

Strategic funds management is not a method to avoid large project notification requirements. If any strategic funds management award increments equal \$1 million federal share or greater, the large project notification process is required. FEMA must complete the large project notification process

prior to the approval and obligation of the initial strategic funds management increments according to Section 507 of the Department of Homeland Security Appropriations Act.

D.2. Managing Subsequent Funding Obligations through Quarterly Reporting

FEMA verifies the need for subsequent obligations through quarterly reporting. Subsequent obligations are based on subaward progress and milestones, as reflected in the quarterly reports. If a recipient is not on target for scheduled assistance drawdowns or subaward completion requirements, FEMA will work with the recipient to revise the schedule and milestones and update the spend plan. For more information about spend plans, refer to [Part 10](#).

The recipient will notify FEMA in writing (email or other correspondence) when need help meeting the activity schedule. Recipients should request the release of the next increment of assistance a minimum of 30 calendar days before the next drawdown is required. Additional obligations are processed through electronic application systems pursuant to the normal course of activity implementation and subsequent assistance.

E. Cost Share Documentation

Requirements for cash and third-party in-kind contributions can be found in grants management regulations.¹⁹³ Cash and third-party in-kind contributions are only allowable for eligible program costs; however, they are necessary and reasonable for completing the scope of work.

The approved budget identifies cost share. The following documentation is required for cash and third-party in-kind contributions:

- Identification of contributions in the approved budget.
- Record of donor (who donated, quantity used, location of work provided, invoices or other documentation to determine value).
- Dates of donation (the donation must be within the period of performance).
- Rates for staffing, equipment usage, supplies, etc.
- Amounts of donation or value of donation.¹⁹⁴
- Deposit slips for cash contributions.

The recipient or subrecipient must keep documentation on file.

¹⁹³ [2 CFR § 200.306](#)

¹⁹⁴ [2 CFR § 200.434](#)

Unrecovered indirect costs cannot be considered as non-federal cost share because of program and statutory requirements that define indirect costs as management costs. Management costs are subject to financial restrictions.

F. Budget and Scope of Work Changes

Recipients are required to report deviations from budget, project scope or objectives. Recipients must request prior written approvals from FEMA for certain budget and program plan revisions in accordance with this section and the requirements in [2 CFR § 200.308](#). This includes a change in the scope or the objective of the project or activity, even if there is no associated budget revision requiring prior written approval.¹⁹⁵

Requests must be made in writing and demonstrate the need for a budget or scope change and include the revised scope, schedule and budget. When budget changes are made, all program requirements continue to apply. Changes must be made prior to closeout to avoid disallowance of costs.

All approvals will be at FEMA's discretion. Failure of the recipient to obtain prior written approval may result in the disallowance of costs. Even in cases where the recipient has authority for rebudgeting, if a program audit determines the costs do not meet the required allowable and reasonable determination, the costs may be disallowed.

Prior written approval is required from FEMA for the following reasons:

- A change in a key person (including employees and contractors) that are identified by name or position in the federal award.
- The disengagement from a project for more than three months or a 25% reduction in time and effort devoted to the federal award over the course of the period of performance project by the approved project director or principal investigator.
- The inclusion, unless waived by FEMA, of costs that require prior approval in accordance with [2 CFR Part 200, Subpart E](#), as applicable.
- The transfer of funds budgeted for participant support costs to other budget categories.
- Additional federal funds are needed to complete the project.
- A transfer of funds between construction and non-construction work categories is needed.
- The transfer of funds within the budget among direct cost categories, functions and activities for federal awards in which the federal share exceeds the simplified acquisition threshold and the cumulative amount of the transfer exceeds or is expected to exceed 10% of the total budget,

¹⁹⁵ [2 CFR § 200.308\(f\)\(1\)](#)

including cost share, as last approved by FEMA. Any subaward adjustment or transfer must be consistent with the scope of the award.

Additional information regarding budget adjustments and revisions can be found in [2 CFR § 200.308](#).

F.1. Cost Overruns and Underruns

A cost overrun, also known as a cost increase or budget overrun, is an unexpected cost increase needed to complete the project and may occur as the result of unfeasible cost estimates, underestimated complexity, prolonged schedules or other reasons. A cost underrun, also known as a cost decrease or budget underrun, is an unexpected reduction in costs needed to complete the project. A cost overrun or underrun may result from a scope, schedule or budget change.

The recipient must notify FEMA as soon as an underrun or overrun is identified. Before redirecting underrun assistance to overrun requests within the same award, the recipient must request and receive FEMA approval. The recipient may request additional federal assistance for identified overruns, which FEMA may approve if program assistance is available. The subaward must continue to meet cost share and eligibility requirements. For example, cost overruns and underruns may affect the amount of available subrecipient management costs. Refer to [Part 13](#) for more information.

For hazard mitigation activities, a new Benefit-Cost Analysis (BCA) may be required if the recipient requests additional assistance.

F.2. Contingencies

A contingency cost is an allowance in the total budget to cover situations that cannot be fully defined when the budget is prepared but will likely result in additional eligible costs. Allowances for major project scope changes, unforeseen risks or extraordinary events may not be included as contingency costs.

For project applications, budgets may include contingencies; however, the recommended total contingency range is 1% to 5%. Contingency costs may be raised to 7% for historic properties as defined under the National Historic Preservation Act.¹⁹⁶ Recipients who request contingencies above these amounts must include a cost analysis that documents the percentage is reasonable.

Contingency costs must be included as a line item (cost category) in the budget of a project application if contingency costs have been identified. As with other line items in the budget, the subapplicant should justify the contingency estimate based on the nature of the proposed project. The total project cost, which may include contingencies, will be used to compute the BCA.

Contingency assistance is not automatically available for use. Prior to its release, contingency assistance must be rebudgeted to another direct cost category. Post-award changes to the budget to

¹⁹⁶ Public Law 89-665 (Oct. 15, 1966)

access contingency assistance require prior written approval from FEMA. The written request should demonstrate what unforeseen condition related to the project arose that required the use of contingency assistance.

G. Period of Performance

The period of performance is the time interval between the start and end date of a federal award, which may include one or more budget periods.¹⁹⁷ FEMA awards only include one budget period, so it will be same as the period of performance.¹⁹⁸ Recipients and subrecipients are expected to complete the federal award activities including administrative actions and to incur approved assistance within the period of performance. Equipment and services and other activities funded by a subaward must be performed, delivered and completed within the subaward period of performance. The recipient must include the start and end dates of the subaward period of performance in the subaward.

The period of performance does not include the closeout and liquidation time frames established by [2 CFR § 200.344](#). Management costs may be incurred after the period of performance to cover closeout costs until the due date of final reports. Project costs incurred after the period of performance are not eligible.

G.1. Award Period of Performance

FEMA must include the start and end dates of the period of performance in the federal award.

The period of performance for the Hazard Mitigation Grant Program (HMGP) begins with the opening of the application period and ends no later than 48 months after the close of the application period.

The period of performance for Hazard Mitigation Grant Program Post Fire (HMGP Post Fire) begins at the opening of the application period (i.e., date of Fire Management Assistance Grant [FMAG] declaration) and ends 48 months after the close of the application period.

Notices of Funding Opportunity (NOFOs) establish the periods of performance for the Building Resilient Infrastructure and Communities (BRIC) and Flood Mitigation Assistance (FMA) programs. For more information on program-specific periods of performance, refer to [Part 10](#).

¹⁹⁷ Period of performance is defined at [2 CFR § 200.1](#) as “the time interval between the start and end date of a Federal award, which may include one or more budget periods. Identification of the period of performance in the Federal award consistent with [§ 200.211\(b\)\(5\)](#) does not commit the Federal agency to fund the award beyond the currently approved budget period.”

¹⁹⁸ Budget period is defined at [2 CFR § 200.1](#) as “time interval from the start date of a funded portion of an award to the end date of that funded portion, during which recipients and subrecipients are authorized to incur financial obligations of the funds awarded, including any funds carried forward or other revisions pursuant to [§ 200.308](#).”

G.2. Subaward Period of Performance

FEMA does not establish activity completion timelines for individual subawards. Recipients are responsible for establishing the subaward period of performance start and end dates at the time the subaward is granted.¹⁹⁹ Recipients must include a period of performance in all subaward agreements and are responsible for ensuring that all approved activities, including management costs, are completed and that all costs are incurred by the end of the subaward period of performance, except for the final management costs and actions needed for closeout. The recipient must establish the subaward period of performance based on the schedule included in the subapplication.

G.3. Award Extensions

Requests for extensions to an award period of performance will be evaluated by FEMA but will not be automatically approved.

For HMGP and HMGP Post Fire, the FEMA regional administrator may issue up to two extensions of the award period of performance for up to 12 months each. All requests to extend the award period of performance beyond 24 months from the original award period of performance end date must be approved by FEMA headquarters.

Recipients must submit extension requests to the recipient's respective FEMA region at least 90 calendar days prior to the award period of performance's expiration. If the extension request is received less than 90 calendar days prior to the award period of performance's expiration, FEMA may deny the request.

The written request must contain specific and compelling justification for why an extension is required. Recipients are advised to coordinate with the FEMA region when preparing an extension. The justification must include:

- Program name, fiscal year and award number.
- Verification that progress has been made as described in Quarterly Progress Reports²⁰⁰ including dates of previous extensions.
- Reason(s) for delay, including details of the legal, policy or operational challenges that prevent the final outlay of awarded assistance by the applicable deadline.
- Status of the activity/activities.
- Period of performance end date and new completion date.

¹⁹⁹ [2 CFR § 200.332\(b\)\(1\)\(v\)](#)

²⁰⁰ Quarterly Progress Reports may also be referred to as Quarterly Performance Reports.

- Amount of assistance drawn down to date.
- Remaining available assistance, both federal and non-federal.
- Budget outlining how remaining federal and non-federal assistance will be expended.
- Plan for completion, including milestones and time frames for achieving each milestone and the position/person responsible for implementing the plan for completion.
- Certification that the activity/activities will be completed within the extended period of performance without any modification to the original scope of work approved by FEMA.

For BRIC and FMA, the NOFO establishes the availability of extensions and what information the applicant should include in the extension request.

FEMA will evaluate requests for extensions to an award period of performance. Based on the sufficiency of justification, FEMA may issue an extension as permitted by the guidance or NOFO. If FEMA approves the extension, the recipient will receive an updated period of performance establishment letter.

H. Requests for Advancements and Reimbursements

It is the recipient's responsibility to process requests for advances and reimbursements of assistance. The recipient should establish accounting procedures to disburse money to subrecipients in a timely manner and provide subrecipients with a point of contact for information on assistance to be requested and received, records that must be maintained, forms to be used, and timelines for requesting the assistance.

Recipients shall submit a copy of Standard Form (SF) 270: *Request for Advance or Reimbursement*, to FEMA via the electronic application system.

I. Program Income

FEMA encourages recipients/subrecipients to generate program income to help defray program costs when appropriate, and it must be used for the original purpose of the federal award. Program income is gross income received by the recipient/subrecipient directly generated by an award-supported activity or earned only because of the award during the award period of performance.²⁰¹ Program income may be derived from the use or rental of real or personal property acquired with award assistance as well as the sale of commodities or items fabricated under the award. Subrecipients must deduct this income from total allowable activity costs incurred during the period of performance or allowable closeout costs.²⁰² The recipient/subrecipient must report their program

²⁰¹ [2 CFR § 200.1](#)

²⁰² [2 CFR § 200.307](#)

income to FEMA for the proper treatment of the program income under the award. The recipient should report program income earned under the award on its next quarterly SF-425: *Federal Financial Report*.

After the period of performance, the recipient and subrecipient may generate income but are no longer required to report the income to FEMA.²⁰³ For example, a community may rent parcels acquired under [44 CFR Part 80](#) to community members to use as garden space as long as the open space requirements and FEMA deed restrictions are followed.

J. Federal Income Tax on Hazard Mitigation Project Assistance

FEMA hazard mitigation assistance that benefits property owners by mitigating their structures is not subject to federal income taxation. FEMA hazard mitigation assistance used to acquire a property will be treated as an involuntary conversion for tax purposes. For more information, property owners should consult the Internal Revenue Service office or a tax advisor.

K. Remedies for Noncompliance

If a recipient fails to comply with federal statutes, regulations or terms and conditions of a federal award—whether they are stated in an assurance, a HMGP Administrative Plan or application, a notice of award, the guidance or elsewhere—FEMA may take one or more of the following actions, as appropriate:

- Temporarily withhold cash payments pending correction of the deficiency by the recipient.
- Disallow (that is, deny both use of assistance and any applicable matching credit for) all or part of the costs of the activity or action not in compliance.
- Wholly or partly suspend or terminate the federal award.
- Initiate suspension or debarment proceedings.
- Withhold further federal awards for the activity.
- Take other remedies that may be legally available.²⁰⁴
- Terminate the federal award if a recipient fails to comply with the terms and conditions of a federal award.²⁰⁵

²⁰³ [2 CFR § 200.307\(c\)](#)

²⁰⁴ [2 CFR § 200.339](#)

²⁰⁵ [2 CFR § 200.340\(a\)\(1\)](#)

These remedies may be applied to noncompliance findings from the Government Accountability Office and Department of Homeland Security Office of the Inspector General audits. For single audits, FEMA will first use the notification procedures in [Part 9](#); however, if compliance is not achieved through implementing corrective actions, the remedies outlined in [Part 8.K.1.6](#) will be used.

K.1. Actions to Address Deficiencies

When there is a deficiency finding, FEMA will notify the recipient of the deficiency and request that the issue be corrected. If compliance cannot be achieved, FEMA will apply one of the remedy actions allowed in Remedies of Noncompliance.²⁰⁶ These actions may result in the reduction of assistance, the placement of special conditions upon the award, and/or suspension or termination of the award.

FEMA will generally work with the recipient to address the deficiency using the Request for Information (RFI) procedures. If attempts to work with the recipient do not result in compliance, the appropriate FEMA project officer will initiate the procedures outlined in this section, such as:

- Documenting the deficiency using an RFI.
- Reviewing the deficiency to determine if it can be corrected.
 - If the project officer determines the recipient can correct the deficiency, the officer will proceed with providing a compliance notification to the recipient. If the project officer determines the recipient cannot correct the deficiency, the officer will proceed with applying remedy actions.
 - If there is a regulation or program statute that requires FEMA to take specific enforcement action, such as administrative closeout, the project officer will proceed with providing a compliance notification to the recipient.²⁰⁷

This process is an opportunity for the recipient to demonstrate it complies or to take actions to come into compliance prior to FEMA taking remedy actions.

K.1.1. Compliance Notification to Recipient

After completing the RFI procedures, the FEMA regional administrator or their designee will send a written deficiency to the recipient advising of the deficiency, as well as the requirement to submit a Compliance Action Plan within 60 calendar days of the date of the notification. The notification will contain the following information:

- The deficiency at issue, with reference to the applicable law, regulation, guidance and/or policy, and the basis for FEMA's determination that the deficiency exists.

²⁰⁶ [2 CFR § 200.339](#)

²⁰⁷ [2 CFR § 200.344](#)

- FEMA’s recommended corrective actions and completion dates to come into compliance.
- That the recipient has a maximum of 60 calendar days from the date of the deficiency notification to submit to FEMA either of the following:
 - A proposed Compliance Action Plan detailing corrective actions and the estimated completion dates to come into compliance.
 - If the recipient does not concur with FEMA’s finding of deficiency, an explanation and documentation to show compliance.
- That if the recipient does not demonstrate compliance within the prescribed completion dates, FEMA will take remedy action(s), which may include a reduction in assistance, placement of special conditions on the grant award, or suspension or termination of assistance.

FEMA will only approve a Compliance Action Plan that includes:

- A description of the corrective actions the recipient proposes to come into compliance with requirements.
- The estimated completion dates for each of the corrective action(s), with milestones. All deficiencies should be addressed prior to the end of the period of performance.

If the recipient does not provide the Compliance Action Plan to FEMA within 60 calendar days, FEMA will start remedy actions. If the recipient does not concur with FEMA’s finding of deficiency, it must provide to FEMA an explanation and documentation demonstrating that the recipient complies within 60 calendar days of the deficiency notification date. If FEMA determines the recipient’s explanation and documentation are not enough to demonstrate compliance, the recipient must provide a Compliance Action Plan within 30 calendar days of FEMA’s determination. Within 45 calendar days of receipt of the Compliance Action Plan, FEMA will review the proposed Compliance Action Plan and notify the recipient of the agency’s determination.

If the FEMA project officer approves the proposed Compliance Action Plan, the notice will include a timeline for corrective action updates from the recipient. If the project officer does not approve the Compliance Action Plan, the notice will include the reason the Compliance Action Plan is inadequate and provide a maximum additional 60 calendar days to adequately revise the Compliance Action Plan. If after the 60-day period the project officer determines the revised Compliance Action Plan is still inadequate, or the recipient is not responsive, the project officer will start procedures to apply remedy actions.

K.1.2. Compliance Action Plan Monitoring

The recipient must provide updates every 90 calendar days, which can be included in the Quarterly Progress Reports, if applicable, or more frequently as prescribed by FEMA. If the recipient does not

provide the FEMA project officer with timely progress reports or is otherwise not responsive to FEMA requests, the project officer will proceed with applying remedy actions.

K.1.3. Specific Award Conditions

Specific award conditions may include the following:²⁰⁸

- Requiring payments as reimbursements rather than advance payments, such as imposing controlled drawdowns in the appropriate Award Payment System by (1) placing any assistance on hold and (2) only releasing assistance for drawdown when the recipient provides a request for reimbursement with SF-270 and full support documentation for the requested payment.
- Withholding authority from the recipient to proceed to later phases of its activity until FEMA receives satisfactory evidence of acceptable performance within a given period of performance.
- Requiring additional and/or more detailed financial or program progress reports.
- Requiring more frequent reports and/or additional information in reports on an as-needed basis or on a recurring schedule as deemed appropriate based on the noncompliance and circumstances.
- Requiring additional activity monitoring.
- Requiring the recipient/subrecipient to obtain technical or management assistance such as requiring technical assistance visits, desk reviews or site visits by the relevant program office to ensure recipients or subrecipients are taking the appropriate actions to correct noncompliance or if there is a need to continue monitoring because of noncompliance.
- Requiring the recipient or subrecipient to obtain specialized technical or management assistance, including but not limited to webinars targeted at specific issues or concerns, training from FEMA's Procurement Disaster Assistance Team, or hiring a contractor to review the recipient's financial systems and make recommendations.
- Establishing additional prior approvals.
- Placing a hold or stop payment on the grant award in the appropriate Award Payment System pending the recipient's submission of satisfactory documentation showing acceptable performance.
- Notifying the recipient of the additional requirements, the reason the requirements are needed, the nature of the action needed, the time allowed for completing the actions, and information about the appeal process if the recipient determines the issues have been resolved.²⁰⁹

²⁰⁸ [2 CFR § 200.208\(c\)](#)

²⁰⁹ [2 CFR § 200.208\(d\)](#)

K.1.4. Requests for Closure and Determination on Corrective Actions

The recipient must provide documentation to demonstrate they have come into compliance and request closure of the relevant finding(s) of deficiency. If, after review of the recipient's request for closure, the FEMA project officer determines the recipient completed the corrective action(s), the project officer will notify the recipient in writing of its compliance determination within 30 calendar days.

K.1.5. Determination that Recipient Did Not Come into Compliance

If, after reviewing the supporting documentation, the FEMA project officer determines the recipient did not complete the corrective action(s), the project officer will start procedures to apply remedy actions.

The project officer will consider the recipient's failure to comply with a Compliance Action Plan as an aggravating factor and will start procedures to apply remedy actions.

K.1.6. Applying Remedy Actions

If the FEMA project officer determines the recipient could not or did not correct the deficiency, the project officer will proceed to apply remedy actions by notifying the recipient of such action within 30 calendar days. The notice will contain the following:

- The requirement(s) at issue, with a reference to the applicable regulation and/or policy, and the basis for FEMA's determination that the deficiency exists.
- Actions taken by the recipient, if any, to attempt to come into compliance, and actions taken by FEMA, if applicable, to assist the recipient with coming into compliance.
- Notification that FEMA is applying remedy action(s) and the effective date.
- Notice of the recipient's opportunity to object through an appeal procedure.

K.1.7. Mitigating and Aggravating Factors

FEMA reviewers can use remedies of noncompliance by considering mitigating and aggravating factors when determining which option to apply. FEMA may consider mitigating and aggravating factors in determining whether to apply remedies of noncompliance.

Mitigating factors include:

- Minor or single instance of deficiency.
- Emergency or extenuating circumstances directly impacting ability to comply.
- First-time deficiency.

- Capacity of the recipient (such as needing technical assistance to apply for an extraordinary HMGP award).
- Recipient self-identifies deficiency to FEMA along with a Compliance Action Plan to address.
- Unheeded requests for assistance from the recipient to FEMA to ensure compliance with new or involved grant requirements.
- Attendance at training events to better understand grant requirements.
- Deficiency is the result of incorrect or delayed information provided by FEMA.
- Other factors that the FEMA reviewer articulates in writing that indicate a relief is needed to manage the award.

Aggravating factors include:

- Experienced or sophisticated recipient or subrecipient with repeated prior instances of noncompliance.
- Numerous instances of noncompliance with the same activity, subaward or award.
- Civil or criminal penalties associated with the noncompliance.
- Non-responsiveness to FEMA requests.
- Fraudulent reporting or evidence of other deliberate intent to not follow requirements.
- Prior instances of fraud, waste and abuse.
- Failure to process required grants management activities in a timely manner.
- Declining or refusing to attend trainings explaining grants management requirements.
- Disregarded or failed opportunity to correct the noncompliance.
- Other factors that the compliance official articulates in writing that indicate a more severe remedy action.

L. Award Termination

Paragraph C.XL of the [FY 2025 DHS Standard Terms and Conditions \(Version 3\)](#) sets forth a term and condition entitled “Termination of a Federal Award” that largely mirrors the termination condition listed below, although they are not identical. The termination provision condition listed below applies to the grant award and the term and condition in Paragraph C.XL of the FY 2025 DHS Standard Terms and Conditions (Version 3) does not.

L.1. Termination of the Federal Award by FEMA

FEMA may terminate the federal award in whole or in part for one of the following reasons identified in [2 CFR § 200.340](#):

1. If the recipient or subrecipient fails to comply with the terms and conditions of the federal award.
2. With the consent of the recipient, in which case FEMA and the recipient must agree upon the termination conditions. These conditions include the effective date and, in the case of partial termination, the portion to be terminated.
3. If the federal award no longer effectuates the program goals or agency priorities. Under this provision, FEMA may terminate the award for these purposes if any of the following reasons apply:
 - a. If DHS/FEMA, in its sole discretion, determines that a specific award objective is ineffective at achieving program goals as described in this NOFO;
 - b. If DHS/FEMA, in its sole discretion, determines that an objective of the award as described in this NOFO will be ineffective at achieving program goals or agency priorities;
 - c. If DHS/FEMA, in its sole discretion, determines that the design of the grant program is flawed relative to program goals or agency priorities;
 - d. If DHS/FEMA, in its sole discretion, determines that the grant program is not aligned to either the DHS Strategic Plan, the FEMA Strategic Plan, or successor policies or documents;
 - e. If DHS/FEMA, in its sole discretion, changes or re-evaluates the goals or priorities of the grant program and determines that the award will be ineffective at achieving the updated program goals or agency priorities; or
 - f. For other reasons based on program goals or agency priorities described in the termination notice provided to the recipient pursuant to [2 CFR § 200.341](#).

L.2. Termination of a Subaward by the Pass-Through Entity

The pass-through entity may terminate a subaward in whole or in part for one of the following reasons identified in [2 CFR § 200.340](#):

1. If the subrecipient fails to comply with the terms and conditions of the federal award.
2. With the consent of the subrecipient, in which case the pass-through entity and the subrecipient must agree upon the termination conditions. These conditions include the effective date and, in the case of partial termination, the portion to be terminated.
3. If the pass-through entity's award has been terminated, the pass-through recipient will terminate its subawards.

L.3. Termination by the Recipient or Subrecipient

The recipient or subrecipient may terminate the federal award in whole or in part for the following reasons identified in [2 CFR § 200.340](#): Upon sending FEMA or the pass-through entity a written notification of the reasons for such termination, the effective date, and, in the case of partial termination, the portion to be terminated. However, if FEMA or the pass-through entity determines that the remaining portion of the federal award will not accomplish the purposes for which the federal award was made, FEMA or the pass-through entity may terminate the federal award in its entirety.

L.4. Impacts of Termination

When FEMA terminates the federal award prior to the end of the period of performance due to the recipient's material failure to comply with the terms and conditions of the federal award, FEMA will report the termination in SAM.gov in the manner described at [2 CFR § 200.340\(c\)](#).

When the federal award is terminated in part or its entirety, FEMA or the pass-through entity and the recipient or subrecipient remain responsible for compliance with the requirements in [2 CFR §§ 200.344 and 200.345](#).

L.5. Notification Requirements

FEMA or the pass-through entity must provide written notice of the termination in a manner consistent with [2 CFR § 200.341](#). The federal award will be terminated on the date of the notification unless stated otherwise in the notification. [2 CFR § 200.341\(b\)](#) will not apply when the federal award is terminated because it no longer effectuates the program goals or agency priorities.

L.6. Opportunities to Object and Appeals

Where applicable, when FEMA terminates the federal award, the written notification of termination will provide the opportunity, and describe the process, to object and provide information challenging the action, pursuant to [2 CFR § 200.342](#).

L.7. Effects of Suspension and Termination

The allowability of costs to the recipient or subrecipient resulting from financial obligations incurred by the recipient or subrecipient during a suspension or after the termination of a federal award are subject to [2 CFR § 200.343](#).

FEMA and the recipient must comply with closeout requirements even if an award is terminated in whole or in part.²¹⁰

²¹⁰ [2 CFR § 200.340\(d\)](#), [2 CFR § 200.344](#), [2 CFR § 200.345](#)

M. Davis-Bacon and Related Acts

The Davis-Bacon and Related Acts (Davis-Bacon Act) ²¹¹ require the payment of prevailing wages on certain federally funded or funded construction activities. The Davis-Bacon Act does not apply to HMA programs as it is not required by the programs' authorizing statutes. However, Davis-Bacon Act compliance may be required if HMA is used in conjunction with another federal agency's grant, such as Community Development Block Grant Disaster Recovery funding from the Department of Housing and Urban Development or if required by state, local, tribal and territorial government laws.

²¹¹ [Public Law 107-217](#) (Aug. 21, 2002), as amended

Part 9. Award Monitoring and Closeout Requirements

A. Reporting

Recipients and subrecipients must maintain records of work and expenditures. Recipients must submit quarterly financial and progress reports to FEMA on Jan. 30, April 30, July 30 and Oct. 30.²¹² In the Hazard Mitigation Assistance Program and Policy Guide (HMA Guide), performance reports are referred to as “progress reports” to align with references in program regulations. Progress and performance reports are subject to the same requirements.

The first quarterly reports are due within 30 calendar days of the end of the first federal quarter following the initial award. FEMA may waive the initial progress reports by sending a read receipt email to the recipient’s hazard mitigation officer or designated representative. The recipient must submit quarterly financial and progress reports thereafter until the award is closed out. Failure to submit timely financial and progress reports to FEMA may result in an inability to access assistance until FEMA receives the proper reports.

A.1. Federal Financial Reports

Recipients shall submit a quarterly Federal Financial Report (SF-425) throughout the period of performance, including partial calendar quarters as well as in periods where no activity occurs. Obligations and expenditures must be reported quarterly using approved forms, which are due to FEMA within 30 calendar days of the end of each calendar quarter (e.g., for the quarter ending March 31, the Federal Financial Report is due no later than April 30). Future awards and assistance drawdowns may be withheld if these reports are delinquent. The final Federal Financial Report is due 120 calendar days after the conclusion of the period of performance.²¹³

Except for the final Federal Financial Report required for closeout, the reporting periods and due dates are described in [Table 7](#).

Table 7: Federal Financial Report Timing

Quarter	Reporting Period	Report Due Dates
1	Oct. 1 – Dec. 31	Jan. 30
2	Jan. 1 – March 31	April 30
3	April 1 – June 30	July 30

²¹² [44 Code of Federal Regulations \(CFR\) § 206.438\(c\)](#), [2 CFR § 200.328](#), [2 CFR § 200.329](#)

²¹³ [2 CFR § 200.344](#), [2 CFR § 200.328](#)

Quarter	Reporting Period	Report Due Dates
4	July 1 – Sept. 30	Oct. 30

Reports are submitted via FEMA’s electronic application systems unless otherwise directed by the region.

A.2. Quarterly Progress Reports

The recipient shall submit a Quarterly Progress Report for each award to report on the progress of their award. Recipients/subrecipients are required to complete and submit Quarterly Progress Reports to their respective FEMA region 30 calendar days after the end of each fiscal quarter following the initial award and thereafter until the award ends. Reports must be submitted throughout the period of performance, including partial calendar quarters, as well as for periods where no award activity occurs.

FEMA may suspend drawdowns from federal financial systems (e.g., Payment Management System [SMARTLINK] or Payment and Reporting System [PARS]) if Quarterly Progress Reports are not submitted on time. FEMA’s decision to extend the period of performance for the award or for management costs may be affected by inconsistent data in the Quarterly Progress Reports and in the recipient’s request.

Quarterly Progress Reports must include:

- Project identification information, including FEMA project number (including disaster number and declaration date for the Hazard Mitigation Grant Program [HMGP]), subrecipient name, and project type.
- Significant activities and developments that have occurred or have shown progress during the quarter, including the work schedule objectives’ completion date established in the subaward.
- Percent completion and whether the completion of work is on. Percent completion is the percentage of the work that has been completed to date. More information on 100% completion is provided in [Part 9.C.1](#).
- Status of costs, including whether the costs are unchanged, overrun or underrun.
- For phased projects, if Phase I of a Phase II project is complete, the percent complete should be noted as a percentage of the entire project (e.g., 50% or whatever is deemed appropriate by the recipient). If Phase II is not eligible and will therefore not move forward, the project is considered 100% complete. However, if Phase II is eligible/obligated, the Quarterly Progress Report should reflect 100% only once the approved scope of work is completed under Phase II.
- For acquisition and relocation projects only, indication of the total properties and property identification list.

- Items in the comment column:
 - A brief narrative describing any change in cost status.
 - A discussion of any problems, delays or adverse conditions that will impair the ability to meet the timelines stated in the subaward.
 - The status of each acquired property for which settlement was completed in that quarter.
 - A statement of whether a request to extend the award period of performance is anticipated.
 - Any other information that FEMA may require.

For Building Resilient Infrastructure and Communities (BRIC) and the Flood Mitigation Assistance (FMA) program, Quarterly Progress Reports must be used and submitted via FEMA’s electronic application systems. For BRIC and FMA, additional reporting requirements may be included in the respective Notice of Funding Opportunity (NOFO). For more information about HMGP Quarterly Progress Reports, refer to [Part 10](#).

A.3. Significant Developments

When a significant development that could impact the award occurs between Quarterly Progress Report due dates, the recipient or subrecipient must notify FEMA or its recipient. Significant developments include events that enable meeting milestones and objectives sooner or at less cost than anticipated or that produce different beneficial results than originally planned. Significant developments also include problems, delays, or adverse conditions which will impact the recipient's or subrecipient's ability to meet milestones or the objectives of the award. When significant developments occur that negatively impact the award, the recipient or subrecipient must include information on their plan for corrective action and any assistance needed to resolve the situation.²¹⁴

A.4. Final Reports

Subrecipients must submit final financial and progress reports to the recipient when they complete the required work and administrative actions. Subrecipients must submit final reports to the recipient no later than 90 calendar days after the conclusion of the subaward period of performance.²¹⁵

For each subaward, the recipient must submit final financial and progress reports to FEMA when they determine that the subrecipient has completed the required work and administrative actions.

For the award, the recipient must submit final financial and progress reports to FEMA when all required work and administrative actions have been completed. The recipient must submit the final

²¹⁴ [2 CFR § 200.329\(e\)](#)

²¹⁵ [2 CFR § 200.344\(b\)](#)

financial and progress reports to FEMA no later than 120 calendar days after the award period of performance.²¹⁶

A.5. Actions to Address Reporting Deficiencies

All financial and progress reports must be complete and submitted on time. Information in the reports must accurately describe award and subaward activities, including data related to the completion of individual property acquisitions. Incomplete progress reports that do not provide information on all open awards and subawards are considered late. When reports are incomplete or late, FEMA will notify the recipient of the deficiency and request that the issue be corrected following procedures in [Part 8](#). If compliance cannot be achieved, FEMA will apply one of the remedy actions allowed in [2 Code of Federal Regulations \(CFR\) § 200.339](#). These actions may result in the reduction of assistance, the placement of special conditions upon the award and/or the suspension or termination of the award.

B. Monitoring Requirements

Monitoring is the responsibility of both FEMA and the recipient. It occurs in several different ways, including the review of Quarterly Progress Reports, site visits, desk reviews or reviewing audit findings. If an issue is identified, FEMA or the recipient may provide technical assistance as necessary. FEMA will also provide a written report of the findings that may include actions that the recipient must take to address noncompliance.

After FEMA makes the award or subaward, both the recipient and the subrecipient are required to monitor and evaluate the progress of the hazard mitigation activity in accordance with the terms outlined in the following documents:

- Approved scope of work and budget.
- Environmental and historic preservation (EHP) award conditions that may require best management practices or monitoring of site conditions (hazard mitigation projects only).
- Any other award terms and conditions.
- Administrative requirements.²¹⁷
- Applicable state, local, tribal and territorial government requirements.

Monitoring requirements are found in the activity-type specific sections (refer to [Part 11](#) and [Part 12](#)).

²¹⁶ [2 CFR § 200.329](#), [2 CFR § 200.344\(b\)](#)

²¹⁷ [2 CFR Part 200](#)

When significant developments negatively impact the subaward, the subrecipient must provide the recipient with information on their plan for corrective action and any assistance they need to resolve the situation.²¹⁸

Sound activity monitoring improves the efficiency of the activity implementation process and the obligation of the assistance process. The use of quarterly progress and financial reporting facilitates project management and allows the recipient and FEMA to monitor obligations and any unliquidated assistance.

B.1. Quarterly Progress Report Review

Recipients should review the Quarterly Progress Reports for all open activities using the following evaluation criteria:

- Ensuring the subrecipients are making adequate progress.
- Meeting any requirements for matching or cost sharing.
- Spending assistance only for allowable costs.
- Maintaining adequate systems.
- Ensuring the subrecipient is accountable for federal or federally generated resources, such as program income, federally owned property or property acquired under the award.

Recipients must also ensure that subrecipient management costs are validated quarterly. Any action taken to address a deficiency should be noted in the Quarterly Progress Report. The Quarterly Progress Report gives FEMA staff information needed to identify and address problems before they become serious, provide technical assistance or take other appropriate action. In addition, FEMA is also responsible for validating recipient and subrecipient management costs across all open awards.

B.2. Improper Payment

An improper payment is a payment that FEMA made that was obligated to and drawn down by the recipient and FEMA later determines was made with an incorrect amount (including overpayments and underpayments) under statutory, contractual, administrative or other legally applicable requirements. Improper payments may include:

- Any payment to an ineligible recipient.
- Any payment for an ineligible good or service.
- Any duplicate payment.

²¹⁸ [2 CFR § 200.332](#)

- Any payment for a good or service not received (except for those payments where authorized by law).
- Any payment that is not authorized by law.
- Any payment that does not account for credit for applicable discounts.
- Any payment where insufficient or lack of documentation prevents a reviewer from discerning whether a payment was proper.²¹⁹

B.3. Actions to Address Deficiencies Identified During Monitoring

Based on a review of progress and financial reports, FEMA may notify the recipient of the deficiency and request that the issue be corrected following procedures in [Part 8](#). If compliance cannot be achieved, FEMA will apply one of the remedy actions allowed in [2 CFR § 200.339](#). These actions may result in the reduction of assistance, the placement of special conditions upon the award and/or suspension or termination of the award.

C. Closeout Requirements

Upon completion, the recipient and subrecipient are required to close out the subaward or federal award. In accordance with [2 CFR § 200.344](#), the subrecipient has 90 calendar days after the conclusion of the subaward period of performance to provide all final reports to the recipient, and the recipient has 120 calendar days after the conclusion of the award period of performance to submit all final reports required for the federal award. This section discusses subaward and award closeout.

The closeout process will verify that:

- The approved scope of work was completed.
- All obligated assistance was liquidated consistent with the approved scope of work.
- All EHP conditions were completed and documented.
- For planning subawards, all jurisdictions have adopted the mitigation plan (mitigation planning subawards only), or a scope of work change to remove non-adopting jurisdictions has been approved.
- The activity was completed consistently with the award or subaward agreement.
- The recipient and subrecipient submitted all required financial and progress reports.

²¹⁹ [2 CFR § 200.1](#)

- The federal award and subaward were closed out in accordance with the provisions outlined in [Part 9](#).

C.1. 100% Work Completion

The subrecipient shall report 100% work completion to the recipient when all work associated with the approved scope of work is complete, including meeting all compliance requirements (e.g., EHP, code and permit certifications, obtaining insurance). This work does not include associated grant administrative activities required for closeout (e.g., submitting payments of claims or certifications to the recipient for subaward closeout, financial reconciliation or participating in recipient site inspections). If the recipient conducts a subsequent site visit and cannot verify that work was completed in compliance with the award and subaward terms, the recipient must correct the next report to indicate that work is not 100% complete. The recipient or FEMA may determine that any noncompliance with the approved scope of work identified during closeout results in disallowed costs under the award.

For hazard mitigation planning and planning-related activities, 100% work completion is also when all work within the approved scope of work is complete. For HMA planning subawards, 100% work completion is on the date FEMA issues the approval letter after adoption by the jurisdiction(s). FEMA will not delay closeout in cases where some jurisdictions are not actively pursuing plan adoption and approval under a multi-jurisdictional plan and the subaward may not be compliant with the scope of work/subaward conditions. In addition, FEMA will not delay closeout while remedies of noncompliance are under FEMA review. For more information on 100% work completion requirements for specific planning activities, refer to [Part 11](#).

C.2. Subaward Closeout

Subaward closeout is the process by which the recipient verifies that a subaward scope of work has been completed as approved and that all reimbursed costs were eligible.

C.2.1. Recipient Responsibilities to Subaward Closeout

The recipient has primary responsibility for the closeout tasks associated with both the program and subrecipient requirements. The recipient must conduct final inspections for activities, reconcile subrecipient expenditures, resolve negative audit findings, obtain final reports from subrecipients and reconcile the closeout activities of subrecipients with award requirements.²²⁰ Activities eligible as management costs cannot extend beyond the due date of the award final reports.

The end date for a subaward period of performance must occur no later than the end date of the period of performance for federal awards detailed in [Part 8.G.1](#).

If the subaward period of performance ends on the same date as the award period of performance, the subrecipient has 90 calendar days after the conclusion of the subaward period of performance

²²⁰ [2 CFR § 200.344](#)

to submit final reports to the recipient.²²¹ The recipient then has an additional 30 calendar days to submit final reports to FEMA for the entire award, including all subawards. All reports are due to FEMA 120 calendar days after the conclusion of the award period of performance.

FEMA encourages recipients to establish subaward periods of performance and due dates for progress and any other reports that end earlier than the award period of performance. Setting earlier deadlines for subawards will allow the recipient additional time to submit all required reports and perform closeout activities prior to the end of the award period of performance.

C.2.2. Subaward Closeout and Liquidation Timeframes

A subrecipient must submit to the recipient, no later than 90 calendar days after the conclusion of the subaward period of performance (or an earlier date as agreed upon by the recipient and subrecipient), all financial, performance, and other reports as required by the subaward.²²² Unless the recipient authorizes an extension, the subrecipient must liquidate all financial obligations incurred under the federal award no later than 90 calendar days after the conclusion of the subaward period of performance (or an earlier date as agreed upon by the recipient and subrecipient).²²³ Subrecipient administrative closeout costs may be incurred until the due date of the subaward final reports. If incurred, these costs must be liquidated prior to the due date of the subaward final reports. All other costs must be incurred during the approved subaward period of performance.

If the recipient does not comply with the requirements of this section within one year of the award period of performance end date, including submitting all final reports, FEMA must report the recipient's material failure to comply with the terms and conditions of the federal award in SAM.gov.²²⁴ FEMA may also pursue other enforcement actions, as appropriate, according to [2 CFR § 200.339](#).

C.2.3. Required Subaward Closeout Documentation

The HMA Closeout Checklists outline the required documentation that must be submitted to FEMA. HMA Grant Closeout Field Guides and Closeout Checklists can be found on FEMA's "[HMA Monitoring and Closeout Guidance](#)" webpage.

The recipient will submit a claim signed by the governor's authorized representative, tribal authorized representative or an executive authorized signature authority.²²⁵ The claim will certify that:

²²¹ If the recipient has not established a period of performance for the subaward, and the recipient and subrecipient have not agreed to an earlier final reporting date when the subrecipient's final financial, progress and other required reports are due, the subrecipient's period of performance ends when the recipient's period of performance ends; [2 CFR § 200.344](#) deadlines dictate when financial, progress and any other reports are due for the recipient and subrecipient.

²²² [2 CFR § 200.344\(b\)](#)

²²³ [2 CFR § 200.344\(c\)](#)

²²⁴ [2 CFR § 200.344\(i\)](#)

²²⁵ [44 CFR § 206.438\(d\)](#), [2 CFR § 200.344](#)

- The reported costs were incurred in the performance of eligible work.
- The approved work was completed.
- The hazard mitigation activity complies with the provisions of the award agreement.

Additionally, the subaward closeout request must include the following:

- Documentation of non-federal match.
- Verification that any program income has been deducted from total activity costs as specified in [2 CFR § 200.307](#).
- For project subawards, final site inspection report that contains the name of the inspector, position of the inspector, date of inspection and verification that work was completed. The report should include photographs of the completed project clearly labeled with the FEMA project number, subrecipient name, property address and latitude/longitude to the nearest sixth decimal place, and source of the photograph. Depending on the activity, FEMA may require multiple photographs of the exterior and interior of the properties and the structures or improvements to certify that the approved scope of work was completed.
- Final SF-425, *Federal Financial Report*.
- SF-428, *Tangible Personal Property Report*, if applicable.
- Final activity costs, including federal share, non-federal share, management costs (if applicable) and any modifications, such as approved underrun and overrun requests.
- Latitude and longitude to the nearest sixth decimal place. For flood reduction, hazardous fuels reduction and soil stabilization projects, an accurate recording of the official acreage, using open file format geospatial files (i.e., shapefiles), must be submitted.
- Documentation that lists the environmental conditions that must be met when the project is carried out (from the Record of Environmental Considerations or Environmental Assessment) and certification that the project was completed in compliance with those environmental conditions. If conditions were assigned to the project, provide copies of EHP compliance documentation (such as an environmental permit).
- Certification that the project meets National Flood Insurance Program (NFIP) requirements (if applicable).
- For new or updated hazard mitigation plans, a final copy of the approved plan.
- For planning-related activities, documentation that the completed activity was consistent with the approved scope of work.

- Copies of deliverables identified in the scope of work, if applicable.

For activity-specific requirements, refer to [Part 11](#), [Part 12](#) and [Part 13](#). Recipients should close out subawards as activities are completed. In addition, as cost underruns are identified, the recipient must submit de-obligation requests to FEMA.

C.2.4. Subaward Procedures

FEMA will advise the recipient of the closeout requirements through the award agreement and the HMA Guide. The recipient will advise the subrecipient of closeout requirements through the state-subrecipient agreement.

Upon the completion of each subaward, the recipient submits a closeout request to FEMA for review and concurrence. FEMA will review all closeout documentation for compliance and may send the recipient a Request for Information (RFI) if needed. FEMA will review the closeout request to verify that the approved hazard mitigation measure complies with all subaward requirements associated with the subaward. The recipient must follow up on and complete all requests. All correspondence (electronic or otherwise) related to closeout, including RFIs, must be maintained in the recipient's files.

If FEMA does not concur with the closeout request, the agency will document the finding using the RFI process (refer to [Part 7](#)) to advise the recipient of the reason(s) for non-concurrence, request additional information and/or explain the corrective actions needed to resolve the noncompliance issues. The recipient must follow up and complete all requests. If the requested information is not submitted, FEMA may disallow costs.

A subaward is officially closed when FEMA approves the request and sends a closeout letter to the recipient confirming the final federal expenditures for the subaward. The recipient will send the subrecipient confirmation that their subaward has been officially closed by FEMA.

C.2.5. Subaward Procedures Statute of Limitations of Disallowed Costs for HMGP

Unless there is evidence of civil or criminal fraud, FEMA cannot initiate administrative action in any forum to recover any payment made to a state or a local government for disaster or emergency assistance after the date that is three years after the date of transmission of the final expenditure report for project completion as certified by the recipient.²²⁶

C.2.6. Notice and Demand Letters

If FEMA identifies a debt, the FEMA Finance Center will notify the recipient in writing, after completion of the appeal process, of the type and amount of debt due, and to provide the recipient with all required notices.

²²⁶ Section 705 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act, Public Law 100-707 (Nov. 23, 1988), amending the Disaster Relief Act of 1974, Public Law 93-288 (May 22, 1974); [42 United States Code \(U.S.C.\) § 5205](#)

C.2.7. Actions to Address Closeout Deficiencies

When closeout documentation is incomplete or late, FEMA will notify the recipient of the deficiency and request that the issue be corrected following procedures in [Part 8](#). If compliance cannot be achieved, FEMA will apply one or more of the remedy actions allowed in [2 CFR § 200.339](#). These actions may result in the temporary withholding of cash payments, reduction of assistance, the placement of special conditions upon the award, suspension or termination of the award, or withholding further awards for the program.

C.2.8. Subrecipient Records Retention

Financial records, supporting documents, statistical records and all other subrecipient records pertinent to a federal award must be retained for three years from the date of submission of the final expenditure report.²²⁷ The final expenditure report is final payment of claim to FEMA for each hazard mitigation activity/subaward, as required by FEMA regulation, policy and guidance. FEMA will confirm the report after the receipt of a complete and accurate claim. The confirmed, complete and accurate subaward closeout report is the final expenditure report.

There are some exceptions where the retention period may be longer than three years as noted and required by the recipient.²²⁸ The following examples are the most common instances:

- When FEMA, the cognizant agency for audit, oversight agency for audit, cognizant agency for indirect costs, or pass-through entity notifies the recipient/subrecipient in writing, to extend the retention period, the recipient/subrecipient must keep records for as long as indicated in the notification, which may be longer than three years.
- Records for real property and equipment acquired with federal assistance must generally be retained for three years after disposition. Records for project types where property may be acquired (safe rooms, flood risk reduction measures, and property acquisition and structural demolition or relocation) must be kept for the project useful life.

C.3. Recipient Management Costs Closeout

Management costs closeout is the process by which the recipient and FEMA verify that all reimbursed costs were eligible. The recipient submits a request to FEMA to close out management costs; the final payment of management costs is based on actual costs incurred.

Upon completion of the last non-management costs subaward, the recipient must submit a letter to FEMA, signed by the governor's authorized representative, tribal authorized representative or an executive authorized signature authority, certifying that the reported costs were incurred in the management of the HMA award.

²²⁷ [2 CFR §§ 200.334-337](#)

²²⁸ [2 CFR §§ 200.334-337](#)

The letter must include:

- A final accounting of eligible management costs. In addition, as cost underruns are identified, the recipient must submit de-obligation requests to FEMA.
- Documentation for cost share (FMA only).
- Confirmation that recipient has time and attendance records on file. The actual records do not need to be sent to FEMA; however, FEMA must confirm they are retained.
- A statement confirming that additional supporting documentation for management costs expenditures is available upon request.

The recipient must liquidate all obligations incurred under the period of performance no later than 120 calendar days after the period of performance expiration, unless FEMA authorizes an extension. FEMA will de-obligate any assistance not liquidated by the recipient.

C.3.1. Recipient Management Costs Administrative Plan Requirements

For HMGP and HMGP Post Fire, costs incurred must comply with the procedures outlined in the recipient's HMGP and HMGP Post Fire Administrative Plan.

FEMA reviews the supporting documentation for personnel costs and validates those costs across all open HMGP and HMGP Post Fire disasters administered by the recipient. This review is done to verify that employees' salaries, contractor costs and actual costs paid from disaster awards are the following:

- Distributed equitably and do not exceed 100%.
- Equivalent to salaries paid in similar positions for non-federal awards.
- Not duplicating direct or management costs provided under subawards.
- In support of activities described in the recipient's request for management costs assistance.

The recipient must submit form SF-428 if applicable. If not applicable, a statement must be included in the closeout cover letter.

C.3.2. Recipient Management Costs Records Retention

Financial records, supporting documents, statistical records and all other recipient records pertinent to management costs must be retained for at least three years from the submission of the final expenditure report. Exceptions that may extend the retention period are defined in [2 CFR § 200.334](#).

C.4. Recipient Award Closeout and Liquidation Timeframes

The recipient has up to 120 calendar days after the conclusion of the award period of performance to submit all financial, progress and other reports required by the award.²²⁹ Additionally, unless FEMA authorizes an extension, the recipient must liquidate all financial obligations incurred under the federal award no later than 120 calendar days after the conclusion of the award period of performance.²³⁰

Recipient administrative closeout costs may be incurred until the due date of the award final reports. If incurred, these costs must be liquidated prior to the due date of the award final reports. All other costs must be incurred during the approved award period of performance. When the recipient does not have a final indirect cost rate covering the period of performance, a final financial report must still be submitted. The recipient must submit a revised final financial report when all applicable indirect cost rates have been finalized.

The recipient must complete the following activities to close out the award:

- Ensure all subawards have been closed out.
- Reconcile/adjust subaward costs, ensuring that non-federal share costs are documented, and that all costs submitted are eligible according to the FEMA-approved scope of work.
- Receive and process cost adjustments or return unobligated assistance to FEMA via SMARTLINK or PARS.²³¹ FEMA makes the final payment to the recipient.
- Notify FEMA that the award is ready for final closeout.

By the end of the closeout and liquidation period, the recipient must submit the following to FEMA:

- A closeout letter signed by the governor’s authorized representative, tribal authorized representative or an executive authorized signature authority to FEMA with supporting documentation, including:
 - A statement that the scopes of work have been completed as approved.
 - SF-425 (for PARS, the final SF-425 is also submitted via PARS).
 - SF-270, *Request for Advance or Reimbursement*, if applicable, or request for de-obligation of unused assistance, if applicable.
 - SF-428, if applicable.

²²⁹ [2 CFR § 200.344\(b\)](#)

²³⁰ [2 CFR § 200.344\(c\)](#)

²³¹ [2 CFR § 200.344\(e\)](#) and [§ 200.344\(f\)](#)

- SF-429, “Real Property Status Report,” if applicable.
- A statement that no inventions were made, nor patents applied for, in the implementation of the award.
- Other documents required by applicable laws and regulations, the HMA Guide or NOFO, terms and conditions of the award, or other FEMA guidance.

An inventory of all construction projects that used funds from this program must be reported with the final progress report.

The closeout submission will not be considered an official submission without the signed statement from the governor’s authorized representative, tribal authorized representative or an executive authorized signature authority.

C.4.1. Administrative Closeout

If a recipient is unable to meet the standard closeout requirements (e.g., unable to fulfill non-federal cost share match requirements), the governor’s authorized representative, tribal authorized representative or an executive authorized signature authority must request an administrative closeout in writing to the FEMA regional administrator. The letter must identify the reason for the recipient’s request.

FEMA may initiate an administrative closeout because of the recipient’s failure to perform in accordance with the terms of the award or submit required final reports within one year of the period of performance end date. After all reasonable efforts to secure the final reports (both financial and program) are exhausted, FEMA will initiate an administrative closeout.²³² If FEMA needs to administratively close an award, it may negatively impact a recipient’s ability to obtain future funding. This mechanism can also require FEMA to make cash or cost adjustments, and ineligible cost determinations based on the information it has, which may result in identifying a debt owed to the agency by the recipient.

The administrative closeout process permits FEMA to close an award using available financial and programmatic information in lieu of final reports. FEMA initiates an administrative closeout through formal correspondence that provides notice of how the agency intends to proceed. If the recipient submits all required documents prior to the completion of the administrative closeout process, FEMA may use those documents to conduct a standard closeout.

FEMA’s decision to enforce an administrative closeout may result in additional enforcement actions, including disallowance of costs or enhanced oversight of other current awards to the same recipient. FEMA must report the recipient or subrecipient’s material failure to comply with the terms and conditions of the award in SAM.gov.²³³ Failure to comply with such reporting requirements may be

²³² [2 CFR § 200.344\(h\) and \(i\)](#)

²³³ [2 CFR § 200.344\(i\)](#)

considered in FEMA’s oversight of other current and future awards to the same recipient, including in the agency’s pre-award review of a recipient’s risk for noncompliance.²³⁴ FEMA staff may impose remedies for noncompliance for the recipient’s other awards.²³⁵ Remedies can include but are not limited to placing special conditions on future awards, enhanced monitoring, or both.

C.4.2. Recipient Records Retention

The recipient must maintain the complete federal award closeout records file for at least three years from the submission date of its final expenditure report.²³⁶ The records retention period may be longer because of an audit or litigation, equipment or real property being used beyond the period of performance, or other circumstances.²³⁷ FEMA recommends that recipients remind subrecipients of the three-year records retention requirement and communicate the submission date of the final expenditure reports to the agency.

FEMA retains the right to disallow costs and recover assistance based on a later audit or other review after closeout. FEMA must make any cost disallowance determination and notify the pass-through entity within the records retention period.

C.4.3. Update of Repetitive Loss Database

FEMA will update the NFIP Repetitive Loss Database as project activities are completed. For acquisition and demolition or relocation projects, recipients must provide an update when there is no longer an insurable structure on the property. For elevation, reconstruction, floodproofing and localized flood risk reduction projects, recipients must provide an update when the approved activity is complete or otherwise effective.

The NFIP defines a repetitive loss structure as any insurable building for which the NFIP paid two or more claims of more than \$1,000 within any rolling 10-year period since 1978. At least two of the claims must be more than 10 calendar days apart but within 10 years of each other. The NFIP may or may not currently insure a repetitive loss structure.²³⁸ The NFIP definition of a repetitive loss structure described in this section is different from the FMA definition following the passage of the [Biggert-Waters Flood Insurance Reform Act of 2012](#).²³⁹ Refer to [Part 10.D](#) for more information.

D. Identification and Collection of Monies Owed

FEMA has a responsibility to recover from the recipient any assistance inappropriately paid for disallowed costs under its grant awards. This recovery may result from overestimates or underruns on approved costs or from identifying amounts paid for costs that were unallowable because of

²³⁴ [2 CFR § 200.206](#)

²³⁵ [2 CFR § 200.339](#), [2 CFR § 200.206](#)

²³⁶ [2 CFR §§ 200.334-337](#)

²³⁷ [2 CFR § 200.334](#)

²³⁸ [National Flood Insurance Program: Flood Insurance Manual](#)

²³⁹ Public Law 112-141 (July 6, 2012); Section 100205

ineligibility, unreasonable costs or other reasons. Funds owed to FEMA also include monies generated under the award or for income associated with the sale, lease or loan of federal property. FEMA may identify and collect monies owed under a grant award at any time during the lifecycle of an award, not just because of closeout.²⁴⁰ If the administering office cannot resolve amounts owed under routine administrative processes, it must refer the matter to the FEMA Finance Center to pursue debt collection. When necessary, the FEMA Finance Center refers debt to the Department of Treasury for collection purposes.

E. Disposition of Purchased Equipment and Supplies

In general, title to supplies and equipment that the recipient or subrecipient purchases with FEMA assistance vests in the recipient or subrecipient. The recipient or subrecipient must use the supplies or equipment for the authorized program or activity purpose as long as is needed and in accordance with [2 CFR § 200.313](#) and [2 CFR § 200.314](#).

In the context of disposition, equipment is any tangible personal property (including information technology systems) having a useful life of more than one year and a per-unit acquisition cost that equals or exceeds the lesser of the capitalization level established by the recipient or subrecipient for financial statement purposes, or \$10,000.²⁴¹ A supply is all tangible personal property that does not fall under the definition of equipment is a supply.²⁴² When equipment or supplies (including materials) purchased with HMA are no longer needed for the original HMA activities, the recipient or subrecipient may use the items for other federally funded programs or activities, provided the recipient informs FEMA.²⁴³

E.1. Disposition of Purchased Equipment

In accordance with federal regulations, state, tribal, and territorial recipients and subrecipients must dispose of equipment in accordance with state, tribal and territorial government laws and procedures.²⁴⁴ If such laws and procedures do not exist, tribal recipients and subrecipients must follow the guidance in [2 CFR § 200.313\(c\)-\(e\)](#). All other recipients and subrecipients must follow the requirements of [2 CFR § 200.313\(c\)-\(e\)](#).

When equipment purchased with HMA is no longer needed for hazard mitigation activities, local governments and private nonprofit organizations may use the items for other federally funded programs or activities.²⁴⁵

When an individual item of equipment is no longer needed for federally assisted programs or activities, local governments and private nonprofit organizations must calculate the current fair

²⁴⁰ For information on how to make a payment to FEMA, refer to the [“How to Pay FEMA”](#) webpage.

²⁴¹ [2 CFR § 200.1](#)

²⁴² [2 CFR § 200.1](#)

²⁴³ [2 CFR § 200.313\(c\)](#)

²⁴⁴ [2 CFR § 200.313\(b\)](#)

²⁴⁵ [2 CFR § 200.313\(c\)](#)

market value of each item of equipment. The recipient or subrecipient must provide the current fair market value for any item if it is of \$10,000 or more. FEMA reduces eligible assistance by this amount.²⁴⁶ If an individual item of equipment has a current fair market value of less than \$10,000, FEMA does not reduce the eligible assistance.²⁴⁷ Local government and private nonprofit organizations must comply with all disposition requirements in [2 CFR § 200.313\(e\)](#).

E.2. Disposition of Purchased Supplies

When supplies are no longer needed for federally assisted programs or activities, all recipients and subrecipients, including state and tribal governments, must calculate the current fair market value of any unused residual supplies (including materials) that FEMA assisted with for any of its activities and determine the aggregate total. The aggregate value of unused supplies consists of all supply types, not just like-item supplies. The recipient or subrecipient must provide FEMA with the current fair market value if the aggregate total of unused residual supplies is greater than \$10,000 at the end of the period of performance. FEMA reduces eligible assistance by this amount.²⁴⁸ If the aggregate total of unused residual supplies is less than \$10,000, FEMA does not reduce the eligible assistance.

F. Disposition of Real Property

If a recipient or subrecipient acquires or improves real property with assistance from an HMA program, the recipient or subrecipient must follow the disposition and reporting requirements provided by FEMA when the acquired or improved real property is no longer needed for the originally authorized purpose.²⁴⁹ Real property is broadly defined to include land, land improvements, structures and any attachments to the land or structures, as well as legal interests in land, including fee interest, licenses, rights of way, and easements.²⁵⁰ Structural hazard mitigation measures applied to land or structures generally constitute improvements to real property.

F.1. Disposition Requirements by Project Type

The real property reporting and disposition standards apply to the following types of HMA projects, for the useful life of the real property, that the recipient or subrecipient acquires or improves:

- **Community safe rooms and tsunami vertical evacuation refuge:** The retrofit of an existing facility or construction of a new community safe room or tsunami vertical evacuation refuge, which are intended to protect a specific population, are considered improvements to real property.
- **Property acquisition:** To acquire property to be dedicated and used in perpetuity for open space for the conservation of natural floodplain functions. Because the recipient or subrecipient

²⁴⁶ [2 CFR § 200.313\(e\)\(2\)](#)

²⁴⁷ [2 CFR § 200.313\(e\)\(1\)](#)

²⁴⁸ [2 CFR § 200.314\(a\)](#)

²⁴⁹ [2 CFR § 200.311](#)

²⁵⁰ [2 CFR § 200.1](#)

acquires title to the property, the recipient or subrecipient must comply with the disposition and reporting requirements in [2 CFR § 200.311](#) and [2 CFR § 200.330](#). To the extent that FEMA's regulations for property acquisition and relocation for open space in [44 CFR Part 80](#) differ from the disposition and reporting requirements in [2 CFR § 200.311](#) and [2 CFR § 200.330](#), FEMA's regulations at [44 CFR Part 80](#) govern.

- **Other hazard mitigation measures:** Mitigation reconstruction, structure elevations, flood risk reduction measures, non-residential building floodproofing and retrofitting are considered improvements to real property.

F.2. Exceptions

The real property reporting and disposition standards do not apply to the following types of HMA projects:

- **Residential safe rooms:** Individuals are not subject to the requirements of [2 CFR Part 200](#); therefore, the disposition and reporting requirements do not apply to safe rooms meant for individuals or families (e.g., safe rooms installed in single-family dwellings).
- **Wildfire mitigation:** The property standards will not typically apply to wildfire mitigation projects that do not improve real property.
- **Warning systems:** The property standards will not typically apply to warning system projects.

G. Audits

Recipients and subrecipients are subject to federal and non-federal audits.²⁵¹ Records are subject to audits by state or territorial auditors, FEMA, the Department of Homeland Security Office of Inspector General and the Government Accountability Office.²⁵² FEMA may adjust activity assistance as the result of audit findings.

G.1. Single Audits

A recipient or subrecipient that expends \$1,000,000 or more from all federal funding sources during their fiscal year must submit an organization-wide financial and compliance audit report, also known as a single audit report.²⁵³

²⁵¹ [2 CFR § 200.501](#)

²⁵² [44 CFR § 206.16](#)

²⁵³ [2 CFR § 200.501](#), [44 CFR § 206.438\(e\)](#)

Recipients must comply with procedures for compliance with audit requirements of the Government Accountability Office's government auditing standards codified in the [Yellow Book](#),²⁵⁴ [2 CFR Part 200, Subpart F](#) and all other applicable statutes and regulations.

For single audits of recipients, a FEMA project officer will be assigned to follow up on audit findings and issue management decisions for associated corrective actions. For single audits of subrecipients, the recipient must follow up on audit findings and issue management decisions for associated corrective actions.

For single audits, the auditee is required to prepare financial statements reflecting their financial position, a schedule of federal award expenditures and a summary of the status of prior audit findings and questioned costs. The auditee must also follow up and take appropriate corrective actions on new and previously issued but not yet addressed audit findings.²⁵⁵ The auditee must prepare a corrective action plan according to [2 CFR § 200.1](#) and [2 CFR § 200.511](#).

G.2. Government Accountability Office

The Government Accountability Office is the investigatory arm of Congress and is under the direction of the Comptroller General of the U.S. The Government Accountability Office is an independent, nonpartisan agency that investigates how the federal government spends taxpayer dollars. Its mission is to help improve the performance and accountability of the federal government.

G.3. Office of the Inspector General

The Department of Homeland Security, Office of Inspector General conducts independent audits and investigations on FEMA programs, operations, activities and functions as well as recipient and subrecipient expenditures of federal assistance. The Office of Inspector General evaluates activities to identify, deter and address fraud, waste and abuse. The Office of Inspector General also provides oversight of non-federal audits such as single audits and has the authority to audit any activity funded with HMA.

G.4. Recovery of Improper Payments

FEMA conducts audit assessments on high-dollar drawdowns to recover payments identified as improper as required by the Payment Integrity Information Act of 2019.²⁵⁶

Award-specific activities include requesting that recipients provide supporting documentation for specific payment requests made on specific dates. Recipient participation in the review is required under the terms and conditions of the grant agreement.

²⁵⁴ The Yellow Book is used by auditors of government entities, entities that receive government awards and other audit organizations. The Yellow Book is available on the Government Accountability Office's website at:

<https://www.gao.gov/yellowbook>

²⁵⁵ [2 CFR § 200.508](#), [2 CFR § 200.510](#), [2 CFR § 200.511](#)

²⁵⁶ Public Law 116-117 (March 2, 2020)

FEMA will initiate recoupment when it identifies noncompliance and when the matter cannot be corrected, an amount is potentially owed and funds have been drawn down (refer to [Part 9.B.2](#) and [Part 9.D](#)). FEMA will process a de-obligation after the recipient has reimbursed the amount of the improper payment.

H. Forms

FEMA maintains multiple forms that OMB must review and approve through the [Paperwork Reduction Act](#) process.²⁵⁷ FEMA generally reviews information collections every three years or earlier if program statutes or regulations require updates. The HMA Guide references the approved forms at the time of publication. Any updates to forms may be published on [fema.gov](#).

Recipients seeking to use different forms than provided by FEMA must gain prior agency approval.

FEMA publishes select forms on [fema.gov](#) for use by applicants and subapplicants, which can be found via the “[Hazard Mitigation Assistance Guidance](#)” webpage.

Additionally, FEMA uses certain federally maintained forms for HMA programs. Standard federal forms for grant applications can be found via the [grants.gov Forms Repository](#).

Commonly used forms include:

- Application for Federal Assistance (SF-424).
- Budget Information for Non-Construction Programs (SF-424A).
- Assurances for Non-Construction Programs (SF-424B).
- Budget Information for Construction Programs (SF-424C).
- Assurances for Construction Programs (SF-424D).
- Disclosure of Lobbying Activities (SF-LLL).

²⁵⁷ Public Law 104-13 (May 22, 1995)

I. Award Monitoring and Closeout Requirements

Resources



Award Monitoring and Closeout Resources

- SF-428, *Tangible Personal Property Report*: <https://grants.gov/forms/forms-repository/post-award-reporting-forms>
- HMA Monitoring and Closeout Guidance: <https://www.fema.gov/grants/mitigation/monitoring-closeout-guidance>

Part 10. Program-Specific Guidance

This part provides additional information applicable to assistance available under each Hazard Mitigation Assistance (HMA) program: Hazard Mitigation Grant Program (HMGP), Hazard Mitigation Grant Program Post Fire (HMGP Post Fire), Building Resilient Infrastructure and Communities (BRIC) and Flood Mitigation Assistance (FMA). This section supplements the grant application and management information provided in [Part 1](#) through [Part 9](#) and the unique activity type guidance in [Part 11](#), [Part 12](#) and [Part 13](#). This part does not provide all necessary information to apply for assistance through the HMA programs and must be read in conjunction with other relevant sections of the guidance, as well as relevant Notices of Funding Opportunity (NOFO). This section also provides information regarding Public Assistance Hazard Mitigation and where stakeholders can go to learn more about Public Assistance grants.

A. Hazard Mitigation Grant Program

This section contains supplemental guidance specific to HMGP and outlines the information necessary for both the applicant and subapplicant to apply for and manage HMGP awards.

A.1. HMGP: Request for Assistance

HMGP is authorized through a major disaster declaration. A governor,²⁵⁸ tribal chief executive, or equivalent, may request that HMGP assistance be available throughout the state, local, tribal or territorial area or only in specific jurisdictions. Federally recognized tribes, through their tribal chief executive,²⁵⁹ may also submit a request for a major disaster declaration within their impacted areas and request that HMGP funding be made available to them under that declaration. For more information about the declaration process and authorization of HMGP, refer to [4 Code of Federal Regulations \(CFR\) Part 206, Subpart B](#), visit FEMA “[How a Disaster Gets Declared](#)” webpage, or seek assistance from the appropriate FEMA regional office.

The governor’s authorized representative or tribal authorized representative serves as the grant administrator for all assistance provided under HMGP.²⁶⁰ The governor’s authorized representative, tribal authorized representative or an executive authorized signature authority’s responsibilities include providing technical advice and assistance to eligible subapplicants and/or subrecipients and ensuring all potential subapplicants are aware of available assistance for the submission of all documents necessary for the award.

A signed FEMA-State Agreement or FEMA-Tribal Agreement is required to carry out HMGP under a major disaster declaration. After execution of the agreement, the applicant becomes the recipient.

²⁵⁸ [42 United States Code \(U.S.C.\) § 5122\(5\)](#)

²⁵⁹ [42 U.S.C. § 5122\(12\)](#)

²⁶⁰ [44 CFR § 206.436\(b\)](#)

A.2. HMGP: Administrative Plan

The HMGP Administrative Plan (Administrative Plan) is a procedural guide that details how the recipient will administer HMGP awards and subawards. Recipients must have a current Administrative Plan approved by FEMA before receiving HMGP assistance. The Administrative Plan may become an annex or chapter of the state's or tribe's overall emergency response and operations plan or comprehensive hazard mitigation program strategy. At a minimum, the Administrative Plan must:

- Designate the agency that will act as recipient.
- Identify the applicant's hazard mitigation officer or designated representative.
- Identify staffing requirements and resources, including a procedure for expanding staff temporarily following a disaster, if necessary.
- Establish procedures to guide implementation activities, including recipient management costs and distribution of subrecipient management costs.
- Establish procedures for monitoring and reporting on subrecipient management costs.
- Comply with any other requirements outlined in [44 CFR § 206.437](#).

Recipients can refer to the [HMGP Administrative Plan Checklist](#) as a template to help ensure compliance with the Administrative Plan requirements.

A.2.1. HMGP: Administrative Plan Designation of Recipient and Hazard Mitigation Officer

Typically, the agency designated to act as the recipient (i.e., state, tribe or territory) manages the responsibilities for federal and state/tribal/territorial disaster assistance and is responsible for meeting the mitigation planning requirement. Although a single agency may administer the assistance, the governor may establish an interagency hazard mitigation team to manage the state/tribal/territorial mitigation program.

The recipient's hazard mitigation officer, or designated representative, is typically responsible for managing the recipient's mitigation program, coordinating the mitigation team and developing and implementing the hazard mitigation plan. The recipient's hazard mitigation officer must also make funds available for planning and provide assistance and training to local governments applying for funds and developing mitigation plans.²⁶¹ Recipients often rely on staff from the emergency management agency or other state or tribal agencies to be the hazard mitigation officer's staff following a disaster.

²⁶¹ [44 CFR § 201.3](#)

A.2.2. HMGP: Administrative Plan Staffing Requirements and the Hazard Mitigation Team

The Administrative Plan must identify the positions and the minimum number of personnel needed to implement HMGP. Key positions may include clerical, administrative and financial managers; grants managers; engineers and/or architects; and mitigation, community and environmental planners. These positions support mitigation planning and administration and the implementation of hazard mitigation activities. However, the staff organizational structure should remain flexible as it may be augmented as needed with emergency management agency staff, staff from other agencies or temporary staff or contractors hired to administer HMGP effectively. The hazard mitigation officer should build capacity and resilience by using both community and mitigation planners. The Administrative Plan must include a procedure for expanding staff resources and using HMGP management costs.

The hazard mitigation team may include representatives of agencies involved with emergency management, natural resources, floodplain management, environmental issues, historic preservation and archaeology, soil conservation, transportation, planning and zoning, housing and economic development, building regulations, infrastructure regulations or construction, public information, insurance, regional and local government, academia, businesses and nonprofit organizations. With the varied backgrounds and specialized expertise of members, the team creates interagency, interdisciplinary insight regarding risks and potential solutions. The interagency aspect of the team can diffuse political pressure on the recipient agency and increase the availability of resources.

The mitigation team may support the recipient agency by:

- Developing a comprehensive hazard mitigation implementation strategy based on the FEMA-approved mitigation plan.
- Supporting development and implementation of state, local, tribal and territorial mitigation plans.
- Communicating with local governments regarding mitigation priorities found in mitigation plans and updates based on the disaster activity.
- Coordinating with community planning and capacity-building, recovery planning, HMGP and Public Assistance mitigation.
- Building public and business/industry support for hazard mitigation initiatives.
- Reviewing, assigning priority and recommending hazard mitigation actions for implementation.
- Seeking assistance for implementation of hazard mitigation measures using a wide range of public and private resources in accordance with the National Mitigation Investment Strategy.

A.2.3. HMGP: Administrative Plan Procedures to Guide Implementation Activities

The Administrative Plan must establish procedures to:

- Identify and notify potential subapplicants of the availability of HMGP assistance.
- Provide potential subapplicants with information on the application process, management costs, program eligibility and deadlines.
- Determine subapplicant eligibility.
- Provide information, training and technical assistance on mitigation planning requirements.
- Provide information for environmental and historic preservation (EHP) and floodplain management reviews in conformance with [FEMA Directive 108-1](#), *Environmental Planning and Historic Preservation Responsibilities and Program Requirements* (Oct. 10, 2018).
- Process requests for advances of assistance and reimbursements.
- Monitor and evaluate the progress and completion of hazard mitigation activities.
- Monitor subrecipient management costs.
- Review and approve cost overruns.
- Process appeals.
- Provide technical assistance as required to subrecipients.
- Comply with the administrative requirements of [44 CFR § 206.437](#) and [2 CFR Part 200](#).
- Comply with audit requirements of [2 CFR Part 200, Subpart F](#).
- Provide Quarterly Progress Reports to FEMA on hazard mitigation activities.

A.2.4. HMGP: Administrative Plan Submission and Approval Deadline

A recipient may forward a new or updated Administrative Plan to FEMA for approval at any time. A recipient should review and update their plan annually and must review and update the plan following a major disaster declaration if required to meet current policy guidance or changes to the administration of the program. If a review indicates there will be no changes to the current Administrative Plan, the recipient should notify FEMA within 90 calendar days of the major disaster declaration.

A.3. HMGP: Eligibility

Refer to [Part 4](#) for details regarding HMGP eligible applicants, eligible subapplicants and eligible activities.

A.4. HMGP: Assistance Estimates

The amount of HMGP funding available to the applicant is based on the estimated total federal assistance, subject to the sliding scale formula that FEMA provides for disaster recovery for each major disaster declaration.²⁶²

FEMA will determine the assistance it will make available for HMGP by a “lock-in,” which will act as a ceiling for assistance available to a recipient, including its subrecipients. The level of HMGP assistance available for a given disaster is based on a percentage of the estimated total federal assistance under the [Robert T. Stafford Disaster Relief and Emergency Assistance Act](#) (Stafford Act),²⁶³ excluding administrative costs for each major disaster declaration.²⁶⁴

FEMA will provide an initial 30-day estimate within 35 calendar days of the major disaster declaration or soon thereafter, in conjunction with calculation of the preliminary amount(s) for management costs. FEMA will provide a revised estimate approximately six months after the major disaster declaration.

FEMA will establish the HMGP assistance ceiling for each disaster 12 months after the major disaster declaration. This amount, also known as the lock-in value for HMGP, is the maximum FEMA can obligate for eligible HMGP activities. The Office of the Chief Financial Officer (OCFO) will continue to provide HMGP estimates before 12 months; however, these estimates will not represent a minimum or floor amount.

Prior to 12 months, total obligations are limited to no more than 75% of any current estimate. Any obligations above 75% of the current estimate prior to 12 months will require concurrence from the FEMA regional administrator (or federal coordination officer with disaster recovery manager authority) and the FEMA OCFO.

In circumstances when a major disaster declaration has resulted in significant fluctuations of projected or actual disaster costs, FEMA, at the request of the recipient, may conduct an additional review after the 12-month lock-in. The recipient must justify in writing to the FEMA regional administrator any requests to change the amount of the lock-in or perform subsequent reviews. The regional administrator will recommend to the OCFO whether to approve the change.

Changes to the lock-in will not be made without the approval of the OCFO. The OCFO may change the amount of the lock-in if they determine that the projections or actuals used to determine the lock-in

²⁶² [44 CFR § 206.432\(b\)](#)

²⁶³ Public Law 100-707 (Nov. 23, 1988); amending the Disaster Relief Act of 1974, Public Law 93-288 (May 22, 1974)

²⁶⁴ [44 CFR § 206.432\(b\)](#)

were inaccurate enough that the change to the lock-in would be material, or for other reasons in their discretion that may reasonably warrant such changes. The OCFO will not make such changes without consultation with the recipient and the regional administrator. For information about reopening the application period after FEMA approves a recalculation of the lock-in, refer to [Part 10.A.10](#).

Any assistance for hazard mitigation activities approved and obligated before the 12-month lock-in will not be de-obligated when the lock-in is less than the previous estimate. [Figure 7](#) outlines the HMGP ceiling review process.

FEMA encourages applicants to submit subapplications in excess of available assistance, as subapplications must be submitted within the application period to be considered for assistance. The excess subapplications can be considered after the application period has closed (and the period of performance is open) when:

- FEMA increases the lock-in ceiling.
- Other subapplications are found ineligible or are withdrawn.
- There are cost underruns after the closeout of approved subapplications.

Subapplications submitted in excess of available assistance should also include associated management costs, as management costs requests must also be submitted within the application period. For information on submitting a request to extend the application period, refer to [Part 10.A.10](#).

HMGP Ceiling Review Process (after 6-month lock-in)

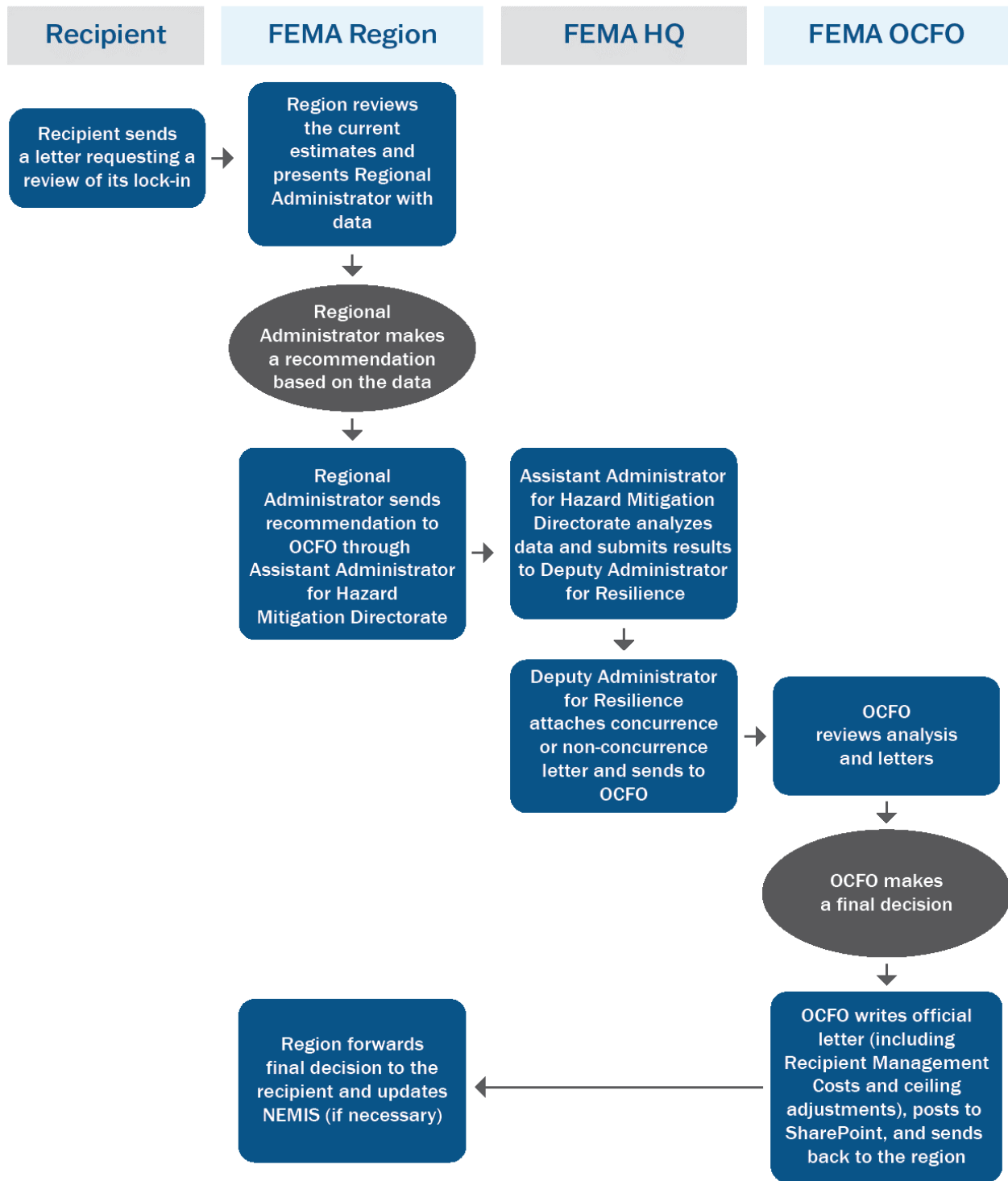


Figure 7. HMGP Ceiling Review Process

A.5. HMGP: Assistance Sliding Scale

The maximum amount of HMGP assistance available is calculated using a sliding scale formula based on a percentage of the estimated total federal assistance under the Stafford Act, excluding administrative costs for each major disaster declaration.

Applicants with a FEMA-approved state or tribal mitigation plan may receive:

- Up to 15% of the first \$2 billion of the estimated aggregate amount of disaster assistance.
- Up to 10% for the next portion of the estimated aggregate amount more than \$2 billion and up to \$10 billion.
- Up to 7.5% for the next portion of the estimated aggregate amount more than \$10 billion and up to \$35.333 billion.

Applicants with a FEMA-approved state or tribal enhanced mitigation plan are eligible for HMGP assistance not to exceed 20% of the estimated total federal assistance under the Stafford Act, up to \$35.333 billion of such assistance, excluding administrative costs authorized for the disaster.

[Figure 8](#) highlights how the HMGP funding ceiling is generally calculated.

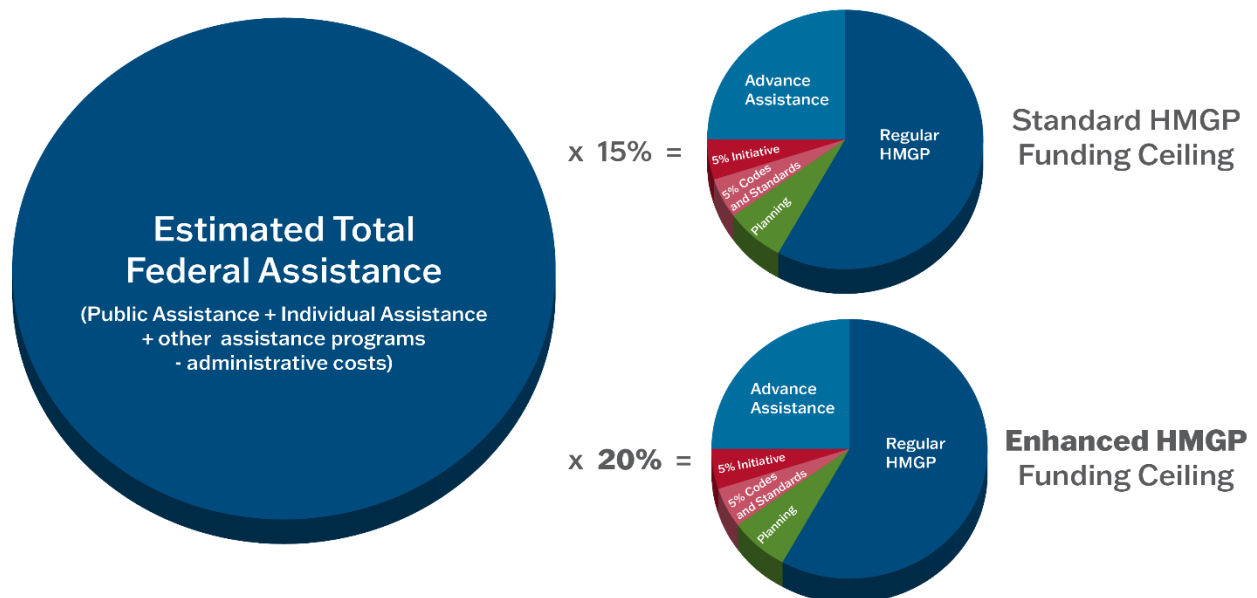


Figure 8. Standard Versus Enhanced Mitigation Plans Under HMGP

A.6. HMGP: Apportionment

The amount of HMGP assistance available under the major disaster declaration will be apportioned among the applicants if there is more than one applicant. For example, if a state and a federally recognized tribe are applicants under the same major disaster declaration, then the available HMGP

assistance will be apportioned among the state and the federally recognized tribe. The apportionment is based on the damage the tribe sustained on tribal land from the disaster.

A.7. HMGP: Timing of Obligation of Assistance

HMGP funds may be obligated for subawards submitted during the open application period and, in limited circumstances, when the application period is closed and the period of performance is open for cost overruns, budget changes, some project modifications or schedule changes. HMGP funds must not, however, be obligated to fund new projects or scope expansions of the original projects that may result in a new project. HMGP funds cannot be obligated for hazard mitigation activities after the application period and the period of performance have closed (i.e., during closeout and after closeout of the award).

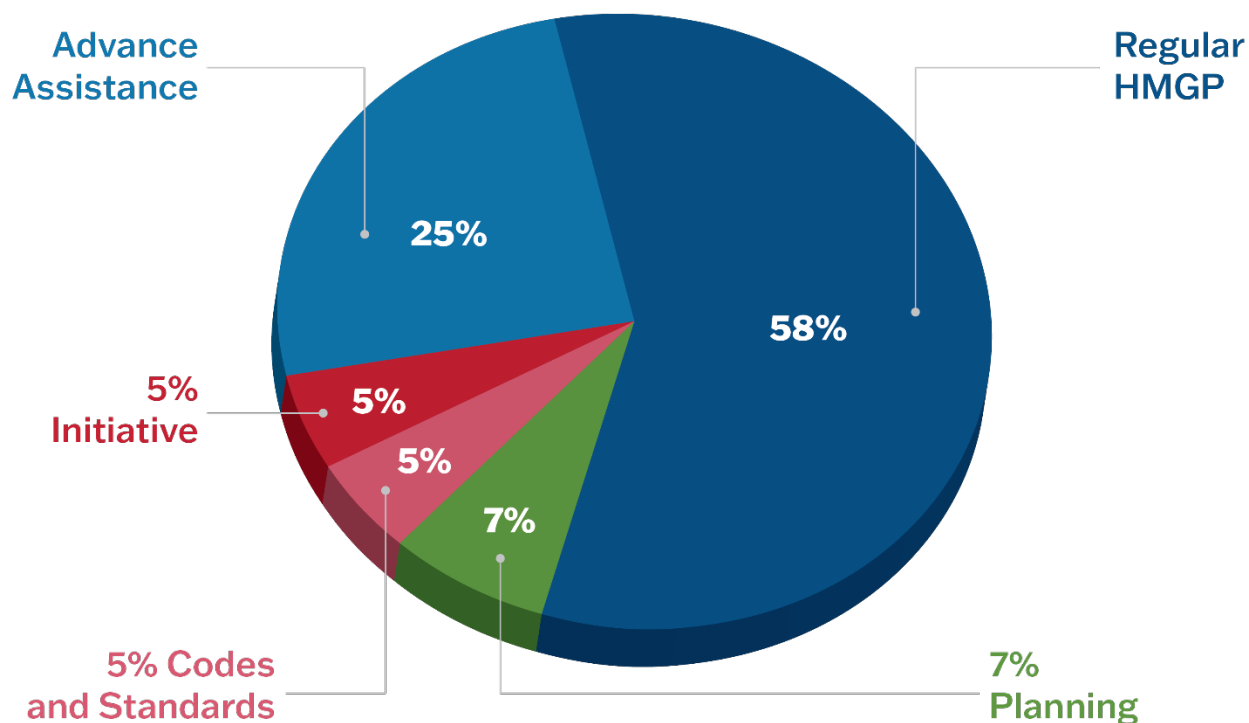
A.8. HMGP: Assistance Restrictions

Assistance restrictions are caps or restrictions on the amount of assistance that applicants may use for specific activities under the HMGP ceiling amount. HMGP assistance restrictions include the following:

- **Advance assistance:** Advance assistance is authorized by Section 404(e) of the Stafford Act,²⁶⁵ which allows advancing up to 25% of the HMGP ceiling. For more detail, refer to [Part 11.B](#).
- **5 Percent Initiative:** Up to 5% of the recipient's HMGP ceiling may be used for hazard mitigation measures that are difficult to evaluate against traditional program cost effectiveness. For more detail, refer to [Part 10.A.8.1](#).
- **7 Percent planning:** Up to 7% of the recipient's HMGP ceiling may be used for mitigation planning activities in compliance with [44 CFR 201.3\(c\)\(4\)](#). For more detail, refer to [Part 11.A.2.4](#).
- **5 Percent Codes and Standards:** Up to 5% of the recipient's HMGP ceiling may be used for codes and standards mitigation activities. For more detail, refer to [Part 11.F.1.4](#).

[Figure 9](#) highlights how HMGP is broken down.

²⁶⁵ [42 U.S.C. § 5170c](#)



Any 7%, 5% or 25% amounts not obligated under their categories revert back to regular HMGP funds.

Figure 9. HMGP Funding Breakdown

A.8.1. HMGP: The 5 Percent Initiative

Some hazard mitigation activities are difficult to evaluate using FEMA-approved cost-effectiveness methodologies. Up to 5% of the recipient's HMGP ceiling may be set aside by the recipient to pay for such activities. The 5 Percent Initiative funds cannot be used in situations where hazard mitigation activities can be evaluated under FEMA-approved cost-effectiveness methods but do not meet the required Benefit-Cost Ratio.

A.8.1.1. HMGP: 5 Percent Initiative Eligibility

To be eligible for the 5 Percent Initiative, activities must:

- Be difficult to evaluate against traditional program cost-effectiveness criteria.
- Comply with all applicable HMGP eligibility criteria as well as with federal, state, and local laws and ordinances.
- Be consistent with the goals and objectives of the relevant state, tribal or territorial (standard or enhanced) mitigation plans and local mitigation plans.
- Be submitted for review with a narrative that indicates that there is a reasonable expectation that future damage or loss of life or injury will be reduced or prevented by the activity.

Activities that may be eligible under the 5 Percent Initiative include:

- The use, evaluation and application of new, unproven hazard mitigation techniques, technologies, methods, procedures or products.
- Purchase of equipment and systems for the purpose of warning residents of impending hazards.
- Purchase of secondary power sources or related equipment, such as generator hookups.
- Hazard identification or mapping and related equipment for the implementation of hazard mitigation activities; however, mapping for the sole purpose of updating a Flood Insurance Rate Map remains ineligible.
- Acquisition of geographic information system software, hardware and data used for hazard mitigation.
- Public awareness or education campaigns about hazard mitigation.
- Evaluation of model building codes in support of future adoption and/or implementation.

A.8.1.2. HMGP: 5 Percent Initiative Closeout

The recipient will follow the closeout requirements for the hazard mitigation activity that was funded under the 5 Percent Initiative. For public outreach, hazard identification and hazard mapping activities, the recipient should provide copies of the deliverables identified in the scope of work, including items such as printed materials, course videos and presentations.

A.8.2. HMGP: 5 Percent Codes and Standards

Applicants may apply for up to 5% of the HMGP ceiling amount for codes and standards activities. The 5 Percent Codes and Standards offers expanded eligibility for a variety of codes and standards activities. This funding source must be used for codes and standards activities and may be paired with the 5 Percent Initiative for a total of up to 10% of the HMGP ceiling amount.

A.9. HMGP: Management Costs

Management costs are indirect costs, direct administrative costs or other administrative expenses associated with a specific project or hazard mitigation activity. The amounts, allowable uses, and procedures for HMGP management costs are established in Section 324 of the Stafford Act,²⁶⁶ as amended by Section 1215 of the [Disaster Recovery Reform Act of 2018](#).²⁶⁷ For more information on eligible management costs activities, refer to [Part 13](#).

²⁶⁶ [42 U.S.C. § 5165b](#)

²⁶⁷ Public Law 115-254 (Oct. 5, 2018)

Management costs are provided outside of, and separate from, the HMGP ceiling amount. The total allowable management costs are up to 15%, of which up to 10% may be used by the recipient and up to 5% by the subrecipient. The subrecipient cannot request more than 5% of the total amount of the grant subaward. FEMA will obligate management costs assistance applied for by recipients and subrecipients in accordance with strategic funds management. There is no additional cost share requirement for HMGP management costs. For the recipient management cost calculation, the “total amount of the HMGP award” means the total amount of contributions based on applications submitted when the HMGP application period closes or when the total HMGP ceiling is determined, whichever is later. The total amount of the HMGP award includes the 75% federal share plus the required 25% non-federal share. In cases where the recipient submits subapplications totaling more than the HMGP ceiling, FEMA will only calculate management costs on subapplications up to the final HMGP ceiling amount. [Figure 10](#) highlights how HMGP management costs are calculated.

The recipient and subrecipients will be reimbursed for actual management costs incurred. All assistance exceeding the incurred costs will be returned to FEMA.

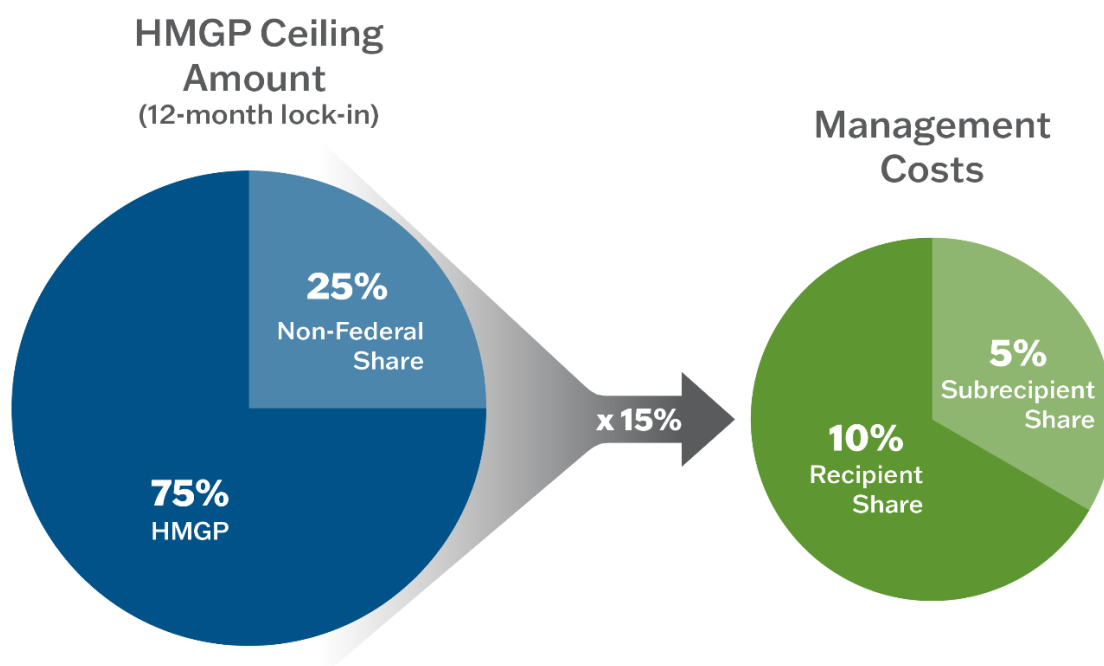


Figure 10. HMGP Management Costs Breakdown

FEMA will establish the amount of assistance that it will initially make available for management costs based on point-in-time HMGP assistance projections. FEMA will provide preliminary management costs—the 30-day estimate—no sooner than 35 calendar days after the date of the major disaster declaration. This estimate is developed from the Disaster Projection Report and is based on the HMGP ceiling amount. FEMA will revise the estimated amount at six months. FEMA will determine the total management costs estimate 12 months after the date of the major disaster declaration or after determination of the total HMGP grant award, whichever is later.

Recipients cannot receive an additional 5% for management costs if also acting as a subrecipient. Management costs cannot be duplicated. However, other state and territorial agencies (other than the agency designated in the award agreement) who submit subapplications may apply for subrecipient management costs.

Additional information regarding specific management costs activities can be found in [Part 13](#).

A.9.1. HMGP: 30-Day Estimate

Upon receipt of the initial 30-day management costs estimate, recipients with a FEMA-approved enhanced mitigation plan and who also have a Program Administration by States (PAS) designation may apply to FEMA for 35% of the estimated recipient management costs amount(s). Other recipients may apply to FEMA for 25% of the estimated recipient management costs amount(s).

A.9.2. HMGP: Six-Month Estimate

If the six-month management costs estimate increases beyond the 30-day estimate, and if the recipient can justify a need for additional management costs before the HMGP ceiling is established, the recipient may apply for available assistance. A recipient with an enhanced mitigation plan who also has a PAS designation may apply for 75% of the available or remaining recipient management costs. Other recipients may apply for 50% of the available or remaining recipient management costs.

A.9.3. HMGP: Requesting Adjustments

Recipients may apply to FEMA for an adjustment in available assistance based on the 30-day or six-month estimates—that is, if they need management costs more than the 30-day (35/25%) and six-month (75/50%) percentage estimates. This option is intended for recipients that either do not have sufficient capacity because of lack of assistance, staffing or other necessary expertise to satisfy HMGP requirements or that have experienced significant disruption from a declared disaster or other event that impacts their ability to complete HMGP activities.

Recipients must apply to FEMA for an adjustment, provide justification that they need an exception, and complete one of the following:

- Provide a management plan that outlines how they will build state or tribal workforce proficiency and experience in grants management, mitigation planning or application review. This option is only available to recipients for whom FEMA has determined the degree of risk in making a federal award to and requires that special conditions be attached to the award according to [2 CFR § 200.206](#).
- Enter into a PAS agreement if they meet program requirements.

A.9.4. HMGP: 12-Month Adjustment

The recipient is eligible to apply for the total management costs award subject to certain withholdings 12 months after the major disaster declaration.

FEMA will provide management costs for subrecipients (through the recipient) upon the agency's approval of each subaward, up to 5% of each project cost. Subrecipients must meet application and submission requirements.

A.9.5. HMGP: Close of Application Period

If the recipient does not fully apply for the HMGP ceiling, FEMA must adjust the amount of available or obligated management costs based on the total amount of subapplications submitted by the end of the application period. If the HMGP ceiling is adjusted after the application period has closed, FEMA may provide additional management costs based on budget amendments applied to existing subapplications.

Regardless of when subawards are obligated, if the total amount of the award is adjusted for any reason, FEMA will de-obligate management costs that exceed the 15% cap (10% for recipient and 5% for subrecipient) based on updated calculations at the end of the application period or if the HMGP ceiling is adjusted, whichever is later.

A.10. HMGP: Application Period

The applicant must submit all HMGP subapplications (including recipient and subrecipient management costs requests) to FEMA within 15 months of the date of the major disaster declaration. Upon written request and justification from the applicant, FEMA may extend the submission timeline in 30- to 120-day increments not to exceed a total extension of 240 calendar days, for a total possible application period of 23 months.²⁶⁸

FEMA may extend the application period beyond 240 calendar days when extenuating circumstances outside of the applicant's control might prevent the applicant from submitting its application by the deadline. For extension requests beyond 240 days, the regional administrator, in coordination with FEMA's assistant administrator for the Hazard Mitigation Directorate, may extend the application time limit for a reasonable amount of time based upon the extenuating circumstances.

FEMA will determine extenuating circumstances based on whether the delays in application submission were due to reasons outside the applicant's control. Determinations will be made on a case-by-case basis.

FEMA generally considers the following to be extenuating circumstances beyond the applicant's control:

Applicant/Subapplicant Constraints:

- The applicant is managing multiple first-time subapplicants.

²⁶⁸ [44 CFR § 206.436](#)

- The applicant/subapplicant is facing severe capacity constraints due to lack of staffing or other resources (e.g., large turnover or unexpected funding cuts).

Disaster Constraints:

- The applicant is managing multiple disaster declarations with overlapping application periods.
- The applicant is impacted by the severity of disaster and/or several concurrent disasters.
- The applicant requires additional time to account for a significant change between the estimated HMGP funding ceiling and the final 12-month lock-in amount.

Project Constraints:

- The applicant/subapplicant needs additional time to align other sources of federal funding (e.g., alignment of HMGP and PA Mitigation or use of the Department of Housing and Urban Development Community Development Block Grant – Disaster Recovery for cost share match).
- The applicant/subapplicant is using novel approaches to mitigation and the scoping or development of this mitigation action created a delay with application submission.
- The applicant requires additional time to provide technical assistance to its subapplicant(s) to develop scopes of work, cost or supporting information for complex projects.

Technological Constraints:

- The applicant is experiencing system access issues (e.g., NEMIS or FEMA GO outages).
- The applicant has issues related to the first-time use of updated grant software.

FEMA will not accept lack of capacity as a valid justification if the applicant has not applied for and used management costs or advance assistance to help develop subapplications, or if the applicant has not requested support or technical assistance from FEMA. Applicants must report problems, delays or adverse conditions that impact their ability to meet the timeline. In addition, applicants must demonstrate in their extension request that efforts were made to address problems, delays, or adverse conditions.

Extension requests must be submitted while the application period is still open. All extension requests submitted by the applicant must:

- Demonstrate that the applicant has made substantial progress in implementing the hazard mitigation strategy and has submitted complete, eligible applications for a significant portion of HMGP assistance. FEMA will not accept incomplete or placeholder applications.
- Include a detailed narrative justification for the extension request that must:
 - Describe how the problems, delays or adverse conditions prevented the applicant from meeting the application period deadline.

- Document how HMGP was implemented consistent with the Administrative Plan including successes, challenges and failures.
- Provide an implementation strategy and goals to use the remaining assistance including a reasonable assessment of the additional time requested and an updated Administrative Plan.
- Identify any technical assistance that can assist in addressing resource gaps and/or is needed by the recipient to successfully implement the program.
- Demonstrate progress made between application period extension requests, if applicable.
- Provide a schedule of 30-day milestones and the associated goals for successful application submission up to the HMGP lock-in ceiling. FEMA will require the recipient to provide monthly updates to measure progress in implementing HMGP.
- Explain why any program support resources, including management costs, project scoping under advance assistance, and technical assistance or training that FEMA provided during the application period, were insufficient to successfully meet the application deadline.

The applicant must submit the request to the FEMA assistant administrator for the Hazard Mitigation Directorate through the regional administrator or, if there is a joint field office, through the federal coordinating officer. The regional administrator or federal coordinating officer will provide their comments or concurrence and forward the request to FEMA Headquarters. If the application deadline occurs while FEMA is reviewing the request, this will not preclude FEMA from granting the extension.

A.10.1. Reopening the Application Period

The assistant administrator for the Hazard Mitigation Directorate may reopen the application period for up to 180 days under two circumstances:

- **Recalculation of assistance:** If FEMA approves a recalculation of the lock-in amount under 44 CFR § 206.432, the applicant may request to reopen the application period. The applicant must send the request to reopen the application period to the regional administrator within 60 days of FEMA's lock-in amount recalculation approval. The regional administrator will coordinate with the assistant administrator for the Hazard Mitigation Directorate to review the request.
- **Appeal:** If FEMA grants an appeal under 44 CFR § 206.440 for an application extension denial after an application period is closed, FEMA will reopen the application period.²⁶⁹

²⁶⁹ [44 CFR § 206.436\(f\)](#)

A.11. HMGP: Cost Share and Global Match

HMGP awards are required to have at least a 25% non-federal cost share (excluding management costs). The recipient may choose to meet the cost share requirement by ensuring a minimum 25% non-federal share for the overall HMGP award rather than on an individual subaward basis. This strategy is referred to as global match.

Global match allows flexibility in which the non-federal cost share does not need to be 25% for each individual subaward. Instead, under the global match, the non-federal cost share for all the recipient's submitted subawards combined must equal 25% for the overall disaster. Global match allows the recipient to use any cost share match that exceeds the minimum requirement (referred to as overmatch) from certain subawards to alleviate the financial burden on other activities.

Recipients choosing this option must develop a cost share strategy as part of their Administrative Plan for FEMA review and approval.

The Administrative Plan must include a cost share strategy that explains how the applicant will:

- Apply this approach fairly and impartially to all subapplicants.
- Monitor the cost share for the overall award throughout the period of performance.
- Address any cost share shortfalls that may occur during the period of performance and at closeout.

If the non-federal cost share of the award is less than 25% of the total amount at closeout, FEMA will recoup the amount of federal assistance needed to bring the cost share into compliance.

Insular areas including American Samoa, Guam, the Northern Mariana Islands and the U.S. Virgin Islands may have a portion of their cost share waived if program requirements allow.²⁷⁰ For more information, please refer to [Part 4.K](#).

A.12. HMGP: Disaster Spend Plan

The HMGP Disaster Spend Plan (Spend Plan) is a forecasting tool that FEMA uses to evaluate the assistance needs of HMGP during a disaster. FEMA manages the timing of HMGP project awards and ensures assistance is available for obligation of approved activities.

It is critical that the recipient is an active participant in the Spend Plan. The recipient identifies assistance priorities for activities, forecasts assistance needs for future months and revises projections each month in coordination with FEMA. This process induces a more collaborative working relationship between FEMA and the recipient.

²⁷⁰ [48 U.S.C. § 1469a](#)

A.13. HMGP: Quarterly Progress Reports

FEMA distributes spreadsheets to recipients each quarter. The spreadsheets are prepopulated with information pulled from the electronic application system to indicate the open, obligated activities that require Quarterly Progress Reports. The recipient coordinates with their subrecipients to collect project information to update the fields in the spreadsheet. The recipient then returns the Quarterly Progress Reports to their FEMA region by the due date.

The recipient shall submit a Quarterly Progress Report for each award no more than 30 calendar days after the quarter end date. [Table 8](#) describes the Quarterly Progress Report due dates.

Table 8: HMGP Quarterly Progress Report Timing

Quarter	Quarter Dates	Report Due Dates
1	Oct. 1 – Dec. 31	Jan. 30
2	Jan. 1 – March 31	April 30
3	April 1 – June 30	July 30
4	July 1 – Sept. 30	Oct. 30

Progress reports should include:

- Reporting period, including fiscal year and quarter.
- Project identification information, including disaster number, FEMA application identification, project number, subrecipient name and project title.
- Significant activities and developments that have occurred or have shown progress during the quarter, including a comparison of actual accomplishments to the work schedule objectives established in the subaward.
- Percent completion and whether completion of work is on schedule; a discussion of any problems, delays or adverse conditions that will impair the ability to meet the timelines stated in the subaward; and anticipated completion date.
- For phased projects, if Phase I of a Phase II project is complete, the percent complete noted as a percentage of the entire project (e.g., 50% or whatever is deemed appropriate by the recipient), not 100%.
 - If Phase II is not eligible and will therefore not move forward, the project is considered 100% complete. However, if Phase II is eligible/obligated, the Quarterly Progress Report should reflect 100% only once the approved scope of work is completed under Phase II.

- Status of costs, including whether the costs are unchanged, overrun or underrun. If there is a change in cost status, the report should include a description of the change in the comment column. The amount disbursed to the subrecipient by project should also be included. If there is a change in cost status, the report should include a description of the change in the comment column. The amount disbursed to the subrecipient by project should also be included.
- A statement of whether a request to extend the award period of performance is anticipated, provided in the comment column.
- The total recipient drawdown amount and most recent drawdown date, the total amount of federal assistance disbursed, the subrecipient expenditure to date and the date of final payment to subrecipient.
- The total number of properties acquired and their corresponding property identification numbers (for acquisition projects).
- Additional information as required by FEMA to assess the progress of an award.

FEMA may suspend drawdowns from federal financial systems (e.g., Payment Management System [SMARTLINK] or Payment and Reporting System [PARS]) if Quarterly Progress Reports are not submitted on time.

A.14. HMGP: Appeal Process

An eligible applicant, subapplicant, recipient or subrecipient may appeal any FEMA determination regarding applications or subapplications submitted for assistance under HMGP.²⁷¹ The subjects of these appeals include but are not limited to FEMA's denial of an applicant/subapplicant eligibility, mitigation plan requirements, application period extensions, EHP considerations, project or plan eligibility, technical feasibility, cost effectiveness, open space compatibility and closeout determinations and de-obligations. Applicants, subapplicants, recipients or subrecipients may also appeal the placement of conditions on the award and any remedy of noncompliance that FEMA may take, including termination or suspension of the award.

FEMA will only consider written appeals that justify the request for reconsideration.²⁷² The appeal must be submitted according to the procedures outlined below. At any point in the appeal process, the recipient may withdraw their appeal by submitting a written request to FEMA and notifying the subapplicant/subrecipient. All second appeal decisions represent FEMA's final administrative decision.²⁷³

²⁷¹ [44 CFR § 206.440](#)

²⁷² [44 CFR § 206.440\(a\)](#)

²⁷³ [44 CFR § 206.440\(e\)\(3\)](#)

A.14.1. HMGP: Content for First and Second Appeals

The applicant/recipient and/or subapplicant/subrecipient must include the following in an appeal request:

- All relevant documentation supporting their position. Such documentation may include scope of work, budgets, EHP review, technical testimony, purchase receipts, before and/or after photographs and changes to the application or other relevant information that may help FEMA make a final decision.
- The specific amount of assistance (or amounts if there are multiple issues on appeal) in dispute, as applicable.
- Citations to the provisions of law, regulation or policy (applicable to the respective disaster) with which the applicant believes FEMA's determination was inconsistent.
- Recipient's recommendation, based on their review of the appeal from the subapplicant/subrecipient.

A.14.2. HMGP: Appeal Deadline

An appellant is the applicant, subapplicant, recipient or subrecipient that is appealing a FEMA determination. Appellants must submit documentation within 60 calendar days after receiving the initial written notice of FEMA's determination on the action that is being appealed.²⁷⁴

Whether the appeal originated with the applicant/recipient or with a subapplicant/subrecipient, the appeal must be submitted in writing to the FEMA regional administrator by the recipient. The recipient must forward all appeals from a subapplicant/subrecipient with a written recommendation to the regional administrator within 60 calendar days of receipt of the appeal.²⁷⁵

If either the applicant or recipient submits the appeal after the 60-day deadline, FEMA will deny the appeal as untimely.

A.14.3. HMGP: Appeal Review

Upon receipt of the appeal, FEMA reviews the appeal content and uses the administrative record and the laws, regulations and policies applicable to each case to analyze the appeal. FEMA may request additional information via a Request for Information (RFI) to adequately adjudicate the appeal or make its decision based on the documentation and information provided at the time of appeal submission. Within 90 calendar days of receiving the appeal, FEMA takes one of the following actions:²⁷⁶

²⁷⁴ [44 CFR § 206.440\(c\)](#)

²⁷⁵ [44 CFR § 206.440\(c\)\(2\)](#)

²⁷⁶ [44 CFR § 200.440\(c\)\(3\)](#)

- Requests additional information specifying the date FEMA must receive information. Within 90 calendar days of receiving the information (or within 90 calendar days of the expiration of the deadline to respond), FEMA provides the appeal decision to the recipient.
- Submits the appeal to an independent expert or experts for technical review and recommendations. Within 90 calendar days of receiving the technical review recommendations, FEMA provides its appeal decision to the recipient.²⁷⁷

In either case, FEMA provides a written decision to the recipient using a method that confirms receipt (through electronic application systems, return receipt mail, email with read-receipt acknowledgement or other methods that confirm receipt).

A.14.4. HMGP: Request for Information for Appeals

If FEMA needs additional information, the agency will determine a date by which the information must be provided. Within 90 calendar days following the receipt of the requested additional information (or 90 calendar days after the information was due), FEMA will notify the recipient in writing of the disposition of the appeal.

FEMA generally issues a RFI when it identifies specific documentation or information that, if provided, might impact the outcome of the appeal or assist the agency in responding adequately to the appeal.

A.14.5. HMGP: First Appeal Process

The FEMA regional administrator is the decision-maker on first appeals.²⁷⁸ Within 90 calendar days following the receipt of an appeal, FEMA will notify the recipient in writing of either the appeal decision or the need for additional information.

A.14.6. HMGP: Second Appeal Process

The second appeal provides an opportunity for appellants to dispute the appeal decision made by the regional administrator. The assistant administrator for the Hazard Mitigation Directorate is the decision-maker on second appeals.²⁷⁹ The assistant administrator's decision will be the final administrative decision of FEMA.²⁸⁰ [Figure 11](#) outlines the second appeal process for HMGP.

²⁷⁷ [44 CFR § 206.440\(d\)](#)

²⁷⁸ [44 CFR § 206.440\(b\)](#)

²⁷⁹ [44 CFR § 206.440\(b\)\(2\)](#)

²⁸⁰ [44 CFR § 206.440\(e\)\(3\)](#)

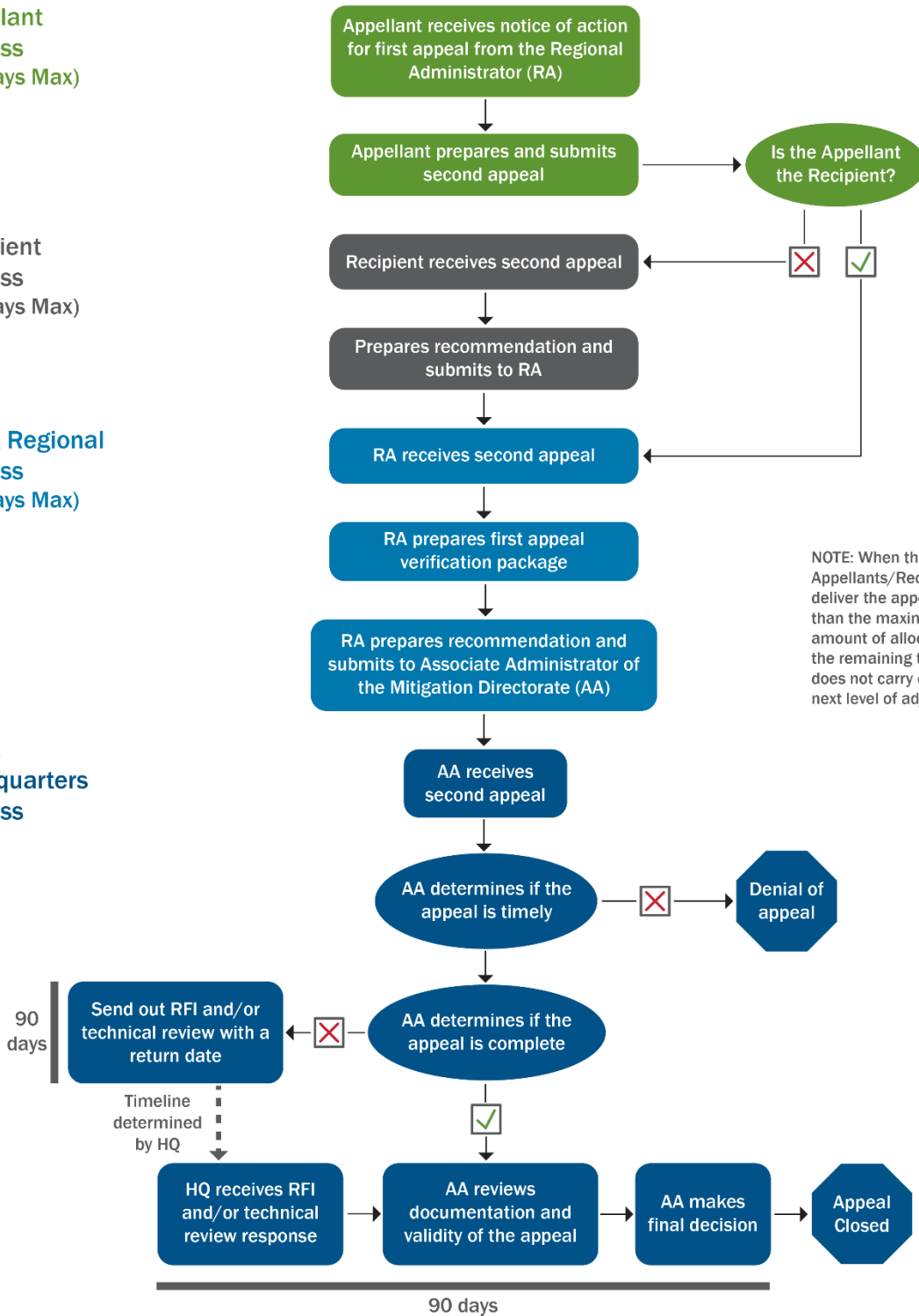
Second Appeal Process for HMGP

Appellant Process
(60 Days Max)

Recipient Process
(60 Days Max)

FEMA Regional Process
(14 Days Max)

FEMA Headquarters Process



NOTE: When the Appellants/Recipients deliver the appeal in less than the maximum amount of allocated time, the remaining timeframe does not carry over to the next level of adjudication.

Figure 11. HMGP Second Appeal Process Flowchart

A.14.6.1. HMGP: Second Appeal Actions – Appellant

To begin the second appeal process, appellants must submit documentation to FEMA within 60 calendar days after receiving the initial notice of the action on the first appeal. When the appellant is the subapplicant/subrecipient, the appeal must be submitted to the recipient prior to the expiration of the 60-day period.

A.14.6.2. HMGP: Second Appeal Actions – Recipient

The recipient reviews the appeal and prepares a recommendation to submit to the FEMA regional administrator. The appeal and supporting documentation must be forwarded to the regional administrator within 60 calendar days of receipt of the second appeal. When the appellant is the recipient, no recommendation is needed because the appeal acts as its disposition. Otherwise, the recipient acts as the reviewer.

A.14.6.3. HMGP: Second Appeal Actions – Region

Upon receipt of the appeal package from the recipient, the FEMA regional administrator will review the package for regulatory requirements. Once completed, the regional administrator will forward the appeal, along with a recommendation, to the assistant administrator for the Hazard Mitigation Directorate.

An appeal verification package confirms that the appellant is eligible for a second appeal. As part of the verification package, the region should prepare the following items to submit to FEMA headquarters:

- A decision letter that documents the initial action taken by the region or recovery office regarding the HMGP application or subapplication precedes the first appeal and usually outlines the basis for denial.
- The set of first appeal documents submitted by the appellant opposing the decision letter.
- The recipient recommendation for first appeal, which documents the recipient's position on the first appeal (if applicable).
- A notice of the action that documents the first appeal decision of the FEMA regional administrator, which is typically the action disputed in the second appeal.
- The set of second appeal documents submitted by the appellant opposing the notice of the action (first appeal decision).
- An appeal recommendation from the regional administrator and/or recovery office that documents the region's preliminary review of the second appeal. If the appellant submits supplemental information, the region should note these changes. No matter which office (region or recovery office) provides the second appeal, the recommendation must accompany the appeal submission to FEMA headquarters.

A.14.6.4. HMGP: Second Appeal Actions – FEMA Headquarters

Upon receipt from the region, FEMA headquarters will make an independent assessment of the appeal. If all documentation is included, the assistant administrator for the Hazard Mitigation Directorate notifies the recipient in writing of the disposition of the appeal within 90 calendar days. If additional information is needed, regardless of an internal or external request, FEMA headquarters determines a date by which the RFI must be returned. In cases when the appeal requires a highly technical analysis, FEMA headquarters will consult an independent scientific or technical expert on the subject. Once FEMA headquarters has completed the RFI and technical review processes, FEMA headquarters notifies the recipient in writing of the disposition within 90 calendar days. The assistant administrator for the Hazard Mitigation Directorate makes the final decision.²⁸¹ If the appeal deals with a mitigation planning subaward, the assistant administrator will coordinate with the National Mitigation Planning program.

A FEMA delay in issuing a decision beyond the applicable 90 or 180 calendar days does not compel the FEMA regional administrator or assistant administrator to decide in the appellant's favor.

B. Hazard Mitigation Grant Program Post Fire

Section 420 of the Stafford Act authorizes FEMA to provide assistance under its FMAG program for the mitigation, management and control of any fire that threatens such destruction as would constitute a major disaster.²⁸² Whether or not a major disaster is declared, the President may provide HMGP Post Fire assistance in accordance with Section 404 of the Stafford Act in any area affected by a fire for which assistance was provided under Section 420 of the Stafford Act.²⁸³

Throughout the HMA Guide, unless specified otherwise in this section, activity development, application, submission and grants management processes that apply to HMGP will also apply to HMGP Post Fire. In addition, all eligible activities under HMGP are also eligible under HMGP Post Fire.

B.1. HMGP Post Fire: Request for Assistance

Section 1204 of the Disaster Recovery Reform Act amended Section 404 of the Stafford Act to allow FEMA to provide HMGP Post Fire assistance for hazard mitigation measures that substantially reduce the risk of future damage, hardship, loss or suffering in any area affected by a fire for which assistance was provided under Section 420 of the Stafford Act. Therefore, unlike HMGP, the availability of HMGP Post Fire assistance is not contingent on a major disaster declaration and is instead available in any area affected by a fire for which assistance was provided under an FMAG declaration.²⁸⁴ Eligible activities may be outside of the declared area if the risk reduction benefits

²⁸¹ [44 CFR § 206.440\(e\)\(3\)](#)

²⁸² [42 U.S.C. § 5187](#)

²⁸³ [42 U.S.C. § 5170c](#)

²⁸⁴ [44 CFR § 204.21](#)

include the declared county or counties (e.g., watershed mitigation). If funding cannot be used in the declared areas, it may be made available statewide.

States, certain federally recognized tribes and territories are eligible to apply for assistance under HMGP Post Fire.

Federally recognized tribes have multiple options for applying for HMGP Post Fire. Under an FMAG declaration made to a state or territory, federally recognized tribes with burned land from the FMAG declared event may request an HMGP Post Fire award as recipients. If a tribe chooses to be a recipient, the tribe must notify FEMA of its intent to apply within 60 days of the state's assistance notification as noted in [Part 10.B.4](#). Tribes (including federally recognized tribes) may also apply through the state to FEMA as subapplicants. Subapplicants will follow the standard HMGP subapplicant procedures consistent with program guidance including updates in effect at the time of the FMAG declaration.

A signed FEMA-State Agreement or FEMA-Tribal Agreement is required to implement the HMGP Post Fire program following FMAG declarations.

B.2. HMGP Post Fire: Administrative Plan

The HMGP Post Fire Administrative Plan (Administrative Plan) is a procedural guide that details how the recipient will administer HMGP Post Fire awards and subawards. Recipients must have a current Administrative Plan approved by FEMA before receiving HMGP Post Fire assistance. The Administrative Plan may become an annex or chapter of the state's or tribe's overall emergency response and operations plan or comprehensive hazard mitigation program strategy.

At a minimum, the Administrative Plan must:

- Designate the agency that will act as recipient.
- Identify the applicant's hazard mitigation officer or designated representative.
- Identify staffing requirements and resources, including a procedure for expanding staff temporarily following a disaster, if necessary.
- Establish procedures to guide implementation activities, including recipient management costs and distribution of subrecipient management costs.
- Establish procedures for monitoring and reporting on subrecipient management costs.
- Comply with any other requirements outlined in [44 CFR § 206.437](#).

Recipients can refer to the [HMGP Administrative Plan Checklist](#) as a template to help ensure compliance with the Administrative Plan requirements.

B.2.1. HMGP Post Fire: Administrative Plan Designation of Recipient and Hazard Mitigation Officer

Typically, the agency designated to act as the recipient (i.e., state, tribe or territory) manages the responsibilities for federal and state/tribal/territorial disaster assistance and is responsible for meeting the mitigation planning requirement. Although a single agency may administer the assistance, the governor may establish an interagency hazard mitigation team to manage the state/tribal/territorial mitigation program.

The recipient's hazard mitigation officer, or designated representative, is typically responsible for managing the recipient's mitigation program, coordinating the mitigation team and developing and implementing the hazard mitigation plan. The recipient's hazard mitigation officer must also make funds available for planning and provide assistance and training to local governments applying for funds and developing mitigation plans.²⁸⁵ Recipients often rely on staff from the emergency management agency or other state or tribal agencies to be the hazard mitigation officer's staff following a disaster.

B.2.2. HMGP Post Fire: Administrative Plan Staffing Requirements and the Mitigation Team

The Administrative Plan must identify the positions and the minimum number of personnel needed to implement HMGP Post Fire. Key positions may include clerical, administrative and financial managers; grants managers; engineers and/or architects; and mitigation, community and environmental planners. These positions support mitigation planning and administration and the implementation of hazard mitigation activities. However, the staff organizational structure should remain flexible as it may be augmented as needed with emergency management agency staff, staff from other agencies or temporary staff or contractors hired to administer HMGP Post Fire effectively. The hazard mitigation officer should build capacity and resilience by using both community and mitigation planners. The Administrative Plan must include a procedure for expanding staff resources and using HMGP Post Fire management costs.

The hazard mitigation team may include representatives of agencies involved with emergency management, natural resources, floodplain management, environmental issues, historic preservation and archaeology, soil conservation, transportation, planning and zoning, housing and economic development, building regulations, infrastructure regulations or construction, public information, insurance, regional and local government, academia, businesses and nonprofit organizations. With the varied backgrounds and specialized expertise of members, the team creates interagency, interdisciplinary insight regarding risks and potential solutions. The interagency aspect of the team can diffuse political pressure on the recipient agency and increase the availability of resources.

²⁸⁵ [44 CFR § 201.3](#)

The hazard mitigation team may support the recipient agency by:

- Developing a comprehensive hazard mitigation implementation strategy based on the FEMA-approved mitigation plan.
- Supporting development and implementation of state, local, tribal and territorial mitigation plans.
- Communicating with local governments regarding hazard mitigation priorities found in mitigation plans and updates based on the disaster activity.
- Coordinating with community planning and capacity-building, recovery planning, HMGP and Public Assistance mitigation.
- Building public and business/industry support for hazard mitigation initiatives.
- Reviewing, assigning priority and recommending hazard mitigation actions for implementation.
- Seeking assistance for implementation of hazard mitigation measures using a wide range of public and private resources in accordance with the National Mitigation Investment Strategy.

B.2.3. HMGP Post Fire: Administrative Plan Procedures to Guide Implementation Activities

The Administrative Plan must establish procedures to:

- Identify and notify potential subapplicants of the availability of HMGP Post Fire assistance.
- Provide potential subapplicants with information on the application process, management costs, program eligibility and deadlines.
- Determine subapplicant eligibility.
- Provide information, training and technical assistance on mitigation planning requirements.
- Provide information for environmental and historic preservation (EHP) and floodplain management reviews in conformance with [FEMA Directive 108-1](#), *Environmental Planning and Historic Preservation Responsibilities and Program Requirements* (Oct. 10, 2018).
- Process requests for advances of assistance and reimbursements.
- Monitor and evaluate the progress and completion of hazard mitigation activities.
- Monitor subrecipient management costs.
- Review and approve cost overruns.
- Process appeals.

- Provide technical assistance as required to subrecipients.
- Comply with the administrative requirements of [44 CFR § 206.437](#) and [2 CFR Part 200](#).
- Comply with audit requirements of [2 CFR Part 200, Subpart F](#).
- Provide Quarterly Progress Reports to FEMA on mitigation activities.

B.2.4. HMGP Post Fire: Administrative Plan Submission and Approval Deadline

A recipient may forward a new or updated Administrative Plan to FEMA for approval at any time. A recipient should review and update their plan annually and must review and update the plan following a major disaster declaration if required to meet current policy guidance or changes to the administration of the program. If a review indicates there will be no changes to the current Administrative Plan, the recipient should notify FEMA within 90 calendar days of the major disaster declaration.

B.3. HMGP Post Fire: Eligibility

The following sections highlight eligibility for HMGP Post Fire. All eligibility requirements in [Part 4](#) must also be met.

B.3.1. HMGP Post Fire: Eligible Applicants and Subapplicants

States and territories that have received an FMAG declaration are eligible to apply for assistance under HMGP Post Fire. Federally recognized tribes with burned land under a state or territory FMAG declared event may apply for HMGP Post Fire as an applicant/recipient.

Tribes (including federally recognized tribes) may apply through the state to FEMA as subapplicants and will follow the standard HMGP subapplicant procedures consistent with program guidance, including updates in effect at the time of the FMAG declaration.

As described in [Part 4](#), private nonprofit organizations may act as the subapplicant for HMGP Post Fire if they own or operate a private nonprofit facility.²⁸⁶

B.3.2. HMGP Post Fire: Plan Requirements

States, territories and/or federally recognized tribes applying for HMGP Post Fire (if applying as an applicant) must have a FEMA-approved mitigation plan at the time of the FMAG declaration and at the time HMGP Post Fire assistance is obligated. For states and territories that do not have a FEMA-approved state mitigation plan at the time of the FMAG declaration, the state must have a FEMA-approved state mitigation plan (including adoption) no later than 30 days following the date of the declaration. If the mitigation plan has not been approved within this time frame, FEMA will deny the state's application for HMGP Post Fire assistance under the FMAG declaration. If the state's FEMA-

²⁸⁶ [44 CFR § 206.434\(a\)\(2\)](#)

approved state mitigation plan lapses after the declaration, FEMA will cease obligating funds for HMGP Post Fire projects. FEMA will not obligate funds for HMGP Post Fire during any period when the state mitigation plan is lapsed. A lapse in the FEMA-approved mitigation plan will result in a temporary hold on additional obligations until the mitigation plan regains FEMA approval. Subapplicants applying for HMGP Post Fire assistance must have an approved mitigation plan when assistance is obligated. For more information about mitigation plan requirements, refer to [Part 4.C](#).

Federally recognized tribal governments (applying for HMGP Post Fire as applicants) that do not have a mitigation plan at the time of the FMAG declaration must have an approved plan (including adoption) no later than 30 days after the declaration. If a tribal government is unable to submit an approved plan within 30 days of the declaration, it may request an extension of up to 90 additional days. If the tribal government does not submit an approved plan within the 120-day time frame, HMGP Post Fire will not be made available to the tribal government for the disaster (for additional information, refer to the FEMA [Tribal Declarations Pilot Guidance](#)). If the tribal government's mitigation plan lapses after the declaration, FEMA will cease obligating funds for HMGP Post Fire projects. FEMA will not obligate funds during any lapse period between the expiration of the current state mitigation plan and the approval of an updated state mitigation plan. Federally recognized tribal governments applying for HMGP as subapplicants must have an approved mitigation plan when assistance is obligated. For more information about mitigation plan requirements, refer to [Part 4.C](#).

B.3.3. HMGP Post Fire: Eligible Activities

Eligible activities for HMGP Post Fire are the same as those under HMGP. HMGP Post Fire prioritizes wildfire and post-wildfire mitigation activities, to include defensible space measures, ignition-resistant building materials, hazardous fuels reduction activities, erosion control measures, slope stabilization and post-wildfire flood reduction measures authorized under Section 404(f) of the Stafford Act.²⁸⁷ As in other HMA programs, these activities are required to be cost-effective.

Recipients will prioritize HMGP Post Fire activities in the following manner:

1. Activities that benefit the declared county, counties or burned tribal lands with wildfire hazard mitigation projects such as defensible space measures, ignition-resistant construction, hazardous fuels reduction, erosion control measures, slope stabilization or post-wildfire flood reduction measures.
2. Activities unrelated to wildfire hazard mitigation, such as generally allowable HMGP projects within the declared county, counties or burned tribal lands.
3. Activities related to wildfire hazard mitigation, such as generally allowable HMGP projects, outside of the declared county, counties or burned tribal lands.

²⁸⁷ [42 U.S.C. § 5170c](#)

4. Activities unrelated to wildfire hazard mitigation, such as generally allowable HMGP projects outside of the declared county, counties or burned tribal lands.

For state or tribal applications for activities outside of the declared or burned area(s), the recipient or subrecipient must explain in the subapplication why the assistance will not be used in the declared or burned area(s).

B.4. HMGP Post Fire: Available Assistance

FEMA will calculate the amount of assistance available under HMGP Post Fire based on the 10-year national average of assistance provided under FMAG declarations for the states. FEMA will provide two separate calculations: 15% of the 10-year national average for recipients that have mitigation plans and 20% of the 10-year national average for recipients that have enhanced mitigation plans.

FEMA will recalculate the national average and the amount of assistance available at the beginning of each fiscal year. The revised amount will be available for declarations for that fiscal year, Oct. 1 to Sept. 30.

FEMA will send a formal assistance notification letter to eligible applicants with the first and each subsequent FMAG declaration.

FEMA will aggregate assistance from multiple events into one award per recipient under any event for that fiscal year, unless the recipient informs FEMA of reasons for not aggregating.

B.5. HMGP Post Fire: Apportionment

Federally recognized tribes with burned land because of a declared FMAG may apply to FEMA as HMGP Post Fire applicants. The tribe must notify FEMA of its intent to apply within 60 calendar days of the state's assistance notification. If FEMA approves assistance for both the state/territory and the tribe, it will apportion the amount of assistance between the state or territory and the tribal government. The apportionment will be calculated based on the amount of each recipient's burned acreage as a percentage of the allotment to which they are entitled under the calculation described above. FEMA regional administrators will have final authority on apportionment determinations.

B.6. HMGP Post Fire: Timing of Obligation of Assistance

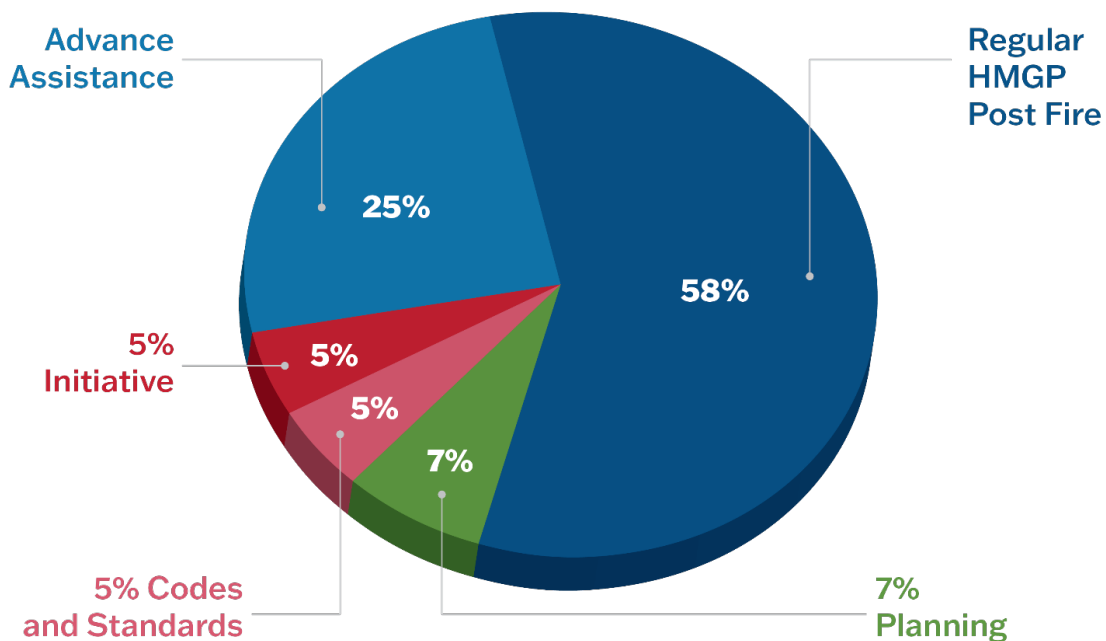
HMGP Post Fire funds may be obligated for subawards submitted during the open application period and, in limited circumstances, when the application period is closed and the period of performance is open for cost overruns, budget changes, some project modifications or schedule changes. HMGP Post Fire funds must not, however, be obligated to fund new projects or scope expansions of the original projects that may result in a new project. HMGP Post Fire funds cannot be obligated for hazard mitigation activities after the application period and the period of performance have closed (i.e., during closeout and after closeout of the award).

B.7. HMGP Post Fire: Assistance Restrictions

Assistance restrictions are caps or restrictions on the amount of assistance that applicants may use for specific activities under the HMGP Post Fire award. For HMGP Post Fire, the restrictions include the following:

- **Advance assistance:** Advance assistance is authorized by Section 404(e) of the Stafford Act,²⁸⁸ which allows advancing up to 25% of the available assistance. For more detail, refer to [Part 11.B](#).
- **5 Percent Initiative:** Up to 5% of the recipient’s available assistance may be used for hazard mitigation measures that are difficult to evaluate against traditional program cost effectiveness. For more detail, refer to [Part 10.B.7.1](#).
- **7 Percent planning:** Up to 7% of the recipient’s available assistance may be used for mitigation planning activities in compliance with [44 CFR § 201.3\(c\)\(4\)](#). For more detail, refer to [Part 11.A.2.4](#).
- **5 Percent Codes and Standards:** Up to 5% of the recipient’s available assistance may be used for codes and standards mitigation activities. For more detail, refer to [Part 11.F.1.4](#).

[Figure 12](#) highlights how HMGP Post Fire is broken down.



Any 7%, 5% or 25% amounts not obligated under their categories revert back to regular HMGP Post Fire funds.

Figure 12. HMGP Post Fire Funding Breakdown

²⁸⁸ Advance Assistance was added by Section 1104 of the Sandy Recovery Improvement Act of 2013, Public Law 113-2 (Jan. 29, 2013).

B.7.1. HMGP Post Fire: The 5 Percent Initiative

Some hazard mitigation activities are difficult to evaluate using FEMA-approved cost-effectiveness methodologies. Up to 5% of the recipient's HMGP Post Fire available assistance amount may be set aside by the recipient to pay for such activities. The 5 Percent Initiative funds cannot be used in situations where hazard mitigation activities can be evaluated under FEMA-approved cost-effectiveness methods but do not meet the required Benefit-Cost Ratio.

B.7.1.1. HMGP Post Fire: 5 Percent Initiative Eligibility

To be eligible for the 5 Percent Initiative, activities must:

- Be difficult to evaluate against traditional program cost-effectiveness criteria.
- Comply with all applicable HMGP Post Fire eligibility criteria as well as with federal, state and local laws and ordinances.
- Be consistent with the goals and objectives of the relevant state, tribal or territorial (standard or enhanced) mitigation plans and local mitigation plans.
- Be submitted for review with a narrative that indicates there is a reasonable expectation that future damage or loss of life or injury will be reduced or prevented by the activity.

Activities that might be eligible under the 5 Percent Initiative include:

- The use, evaluation and application of new, unproven hazard mitigation techniques, technologies, methods, procedures or products.
- Purchase of equipment and systems for the purpose of warning residents of impending hazards.
- Purchase of secondary power sources or related equipment, such as generator hookups.
- Hazard identification or mapping and related equipment for the implementation of hazard mitigation activities; however, mapping for the sole purpose of updating a Flood Insurance Rate Map remains ineligible.
- Acquisition of geographic information system software, hardware and data used for hazard mitigation.
- Public awareness or education campaigns about hazard mitigation.
- Evaluation of model building codes in support of future adoption and/or implementation.

B.7.1.2. HMGP Post Fire: 5 Percent Initiative Closeout

The recipient will follow the closeout requirements for the hazard mitigation activity that was funded under the 5 Percent Initiative. For public outreach, hazard identification and hazard mapping

activities, the recipient should provide copies of the deliverables identified in the scope of work, including items such as printed materials, course videos and presentations.

B.7.2. HMGP Post Fire: 5 Percent Codes and Standards

Applicants may apply for up to 5% of the HMGP Post Fire available assistance amount for codes and standards activities. The 5 Percent Codes and Standards offers expanded eligibility for a variety of codes and standards activities. This funding source must be used for codes and standards activities and may be paired with the 5 Percent Initiative for a total of up to 10% of the HMGP Post Fire available assistance amount.

B.8. HMGP Post Fire: Management Costs

Management costs are indirect costs, direct administrative costs or other administrative expenses associated with a specific project or hazard mitigation activity. The amounts, allowable uses, and procedures for HMGP Post Fire management costs are established in Section 324 of the Stafford Act,²⁸⁹ as amended by Section 1215 of the Disaster Recovery Reform Act.²⁹⁰ For more information on indirect costs, refer to [Part 13](#).

Management costs are provided outside of, and separate from, the HMGP Post Fire available assistance amount. The total allowable management costs are up to 15%, of which up to 10% may be used by the recipient and up to 5% by the subrecipient. The subrecipient cannot request more than 5% of the total amount of the grant subaward. FEMA will obligate management costs assistance applied for by recipients and subrecipients in accordance with strategic funds management. There is no additional cost share requirement for HMGP Post Fire management costs.

For the recipient management cost calculation, the “total amount of the HMGP Post Fire award” means the total amount of contributions based on applications submitted when the HMGP Post Fire application period closes or when the total HMGP Post Fire available assistance amount is determined, whichever is later. The total amount of the HMGP Post Fire award includes the 75% federal share plus the required 25% non-federal share. In cases where the recipient submits subapplications totaling more than the HMGP Post Fire available assistance amount, FEMA will only calculate management costs on subapplications up to the final HMGP Post Fire available assistance amount. [Figure 13](#) highlights how HMGP Post Fire management costs are calculated.

²⁸⁹ [42 U.S.C. § 5165b](#)

²⁹⁰ Public Law 115-254 (Oct. 5, 2018)

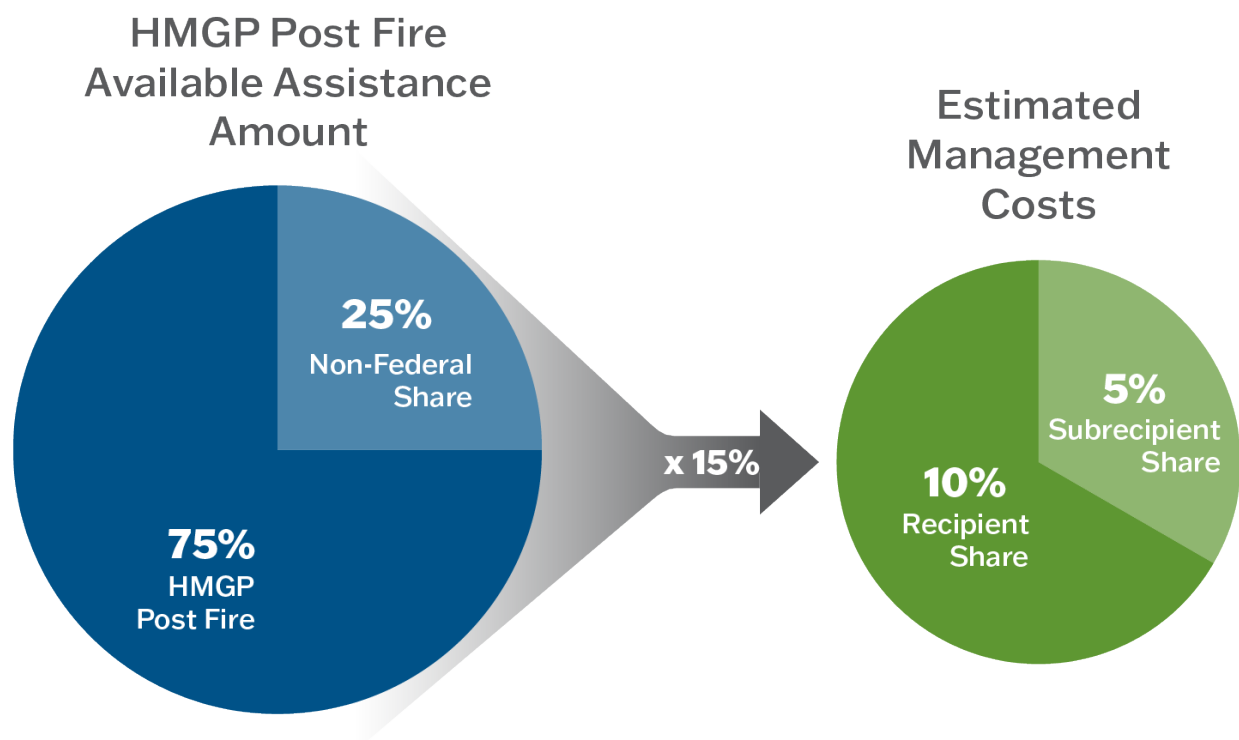


Figure 13. HMGP Post Fire Estimated Management Costs

FEMA will provide management costs under HMGP Post Fire in accordance with HMGP management costs outlined in [Part 10.A.9](#), except that FEMA will not provide multiple estimates of the amount of management costs available. Instead, it will provide one estimate of the management costs available under HMGP Post Fire for the first fire for which assistance was provided under Section 420 of the Stafford Act, which will be included in the formal funding notification. The estimate will subsequently be increased as appropriate for each FMAG event that is aggregated.

The recipient and subrecipients will be reimbursed for actual management costs incurred. All assistance exceeding the incurred costs will be returned to FEMA.

Recipients cannot receive an additional 5% for management costs if also acting as a subrecipient. Management costs cannot be duplicated. However, other state and territorial agencies (other than the agency designated in the award agreement) who submit subapplications may apply for subrecipient management costs. Additional information regarding specific management costs activities can be found in [Part 13](#).

If the recipient does not apply for the full HMGP Post Fire available assistance amount, FEMA must adjust the amount of available or obligated management costs based on the total amount of subapplications submitted by the end of the application period. If the HMGP Post Fire available assistance amount is adjusted after the application period has closed, FEMA may provide additional management costs based on budget amendments applied to existing subapplications.

Regardless of when subawards are obligated, if the total amount of the HMGP Post Fire award is adjusted for any reason, FEMA will de-obligate management costs that exceed the 15% cap (10% for recipient and 5% for subrecipient) based on updated calculations at the end of the application period or if the HMGP Post Fire available assistance amount is adjusted, whichever is later.

B.9. HMGP Post Fire: Application Period

The application period opens with the state or territory's first FMAG declaration of the fiscal year and closes six months after the end of that fiscal year. The applicant must submit all HMGP Post Fire subapplications (including recipient and subrecipient management costs requests) to FEMA within six months after the end of the applicable fiscal year.

Upon written request and justification from the applicant, FEMA may extend the application submission timeline in 30- to 120-day increments not to exceed a total extension of 240 calendar days, for a total of 14 months after the end of the applicable fiscal year.²⁹¹

FEMA may extend the application period beyond 240 calendar days when extenuating circumstances outside of the applicant's control might prevent the applicant from submitting its application by the deadline. For extension requests beyond 240 days, the regional administrator, in coordination with FEMA's assistant administrator for the Hazard Mitigation Directorate, may extend the application time limit for a reasonable amount of time based upon the extenuating circumstances. FEMA will determine extenuating circumstances based on whether the delays in application submission were due to reasons outside the applicant's control. Determinations will be made on a case-by-case basis.

FEMA generally considers the following to be extenuating circumstances beyond the applicant's control:

Applicant/Subapplicant Constraints:

- The applicant is managing multiple first-time subapplicants.
- The applicant/subapplicant is facing severe capacity constraints due to lack of staffing or other resources (e.g., large turnover or unexpected funding cuts).

Disaster Constraints:

- The applicant is managing multiple disaster declarations with overlapping application periods.
- The applicant is impacted by the severity of disaster and/or several concurrent disasters.

Project Constraints:

- The applicant/subapplicant needs additional time to align other sources of federal funding (e.g., alignment of HMGP and PA Mitigation or use of the Department of Housing and Urban Development Community Development Block Grant – Disaster Recovery for cost share match).

²⁹¹ 44 CFR § 206.436(e)

- The applicant/subapplicant is using novel approaches to mitigation.
- The applicant requires additional time to provide technical assistance to its subapplicant(s) to develop scopes of work, cost or supporting information for complex projects.

Technological Constraints:

- The applicant is experiencing system access issues (e.g., NEMIS or FEMA GO outages).
- The applicant has issues related to the first-time use of updated grant software.

FEMA will not accept lack of capacity as a valid justification if the applicant has not applied for and used management costs or advance assistance to help develop subapplications, or if the applicant has not requested support or technical assistance from FEMA. Applicants must report problems, delays, or adverse conditions that impact their ability to meet the timeline. In addition, applicants must make efforts to address problems, delays, or adverse conditions to have adequate justification for FEMA to approve a request.

Extension requests must be submitted while the application period is still open. All extension requests submitted by the applicant must:

- Demonstrate that the recipient has made substantial progress in implementing the hazard mitigation strategy and has submitted complete, eligible applications for a significant portion of HMGP Post Fire assistance. FEMA will not accept incomplete or placeholder applications.
- Include a detailed narrative justification for the extension request that must:
 - Describe how the problems, delays or adverse conditions prevented the applicant from meeting the application period deadline.
 - Document how HMGP Post Fire was implemented consistent with the Administrative Plan including successes, challenges and failures.
 - Provide an implementation strategy and goals to use the remaining assistance including a reasonable assessment of the additional time requested and an updated Administrative Plan.
 - Identify any technical assistance that can assist in addressing resource gaps and/or is needed by the recipient to successfully implement the program.
 - Demonstrate progress made between application period extension requests, if applicable.
- Provide a schedule of 30-day milestones and the associated goals for successful application submission up to the HMGP Post Fire assistance amount. FEMA will require the recipient to provide monthly updates to measure progress in implementing HMGP Post Fire.

- Explain why any program support resources, including management costs, project scoping under advance assistance, and technical assistance or training that FEMA provided during the application period, were insufficient to successfully meet the application deadline.

The applicant must submit the request to the FEMA assistant administrator for the Hazard Mitigation Directorate through the regional administrator or, if there is a joint field office, through the federal coordinating officer. The regional administrator or federal coordinating officer will provide their comments or concurrence and forward the request to FEMA headquarters. If the application deadline occurs while FEMA is reviewing a request, this will not preclude FEMA from granting the extension.

B.9.1. Reopening the Application Period

FEMA's assistant administrator for the Hazard Mitigation Directorate may reopen the application period for up to 180 days if FEMA grants an appeal under 44 CFR § 206.440 for an application extension denial after an application period is closed.²⁹²

B.10. HMGP Post Fire: Cost Share and Global Match

HMGP Post Fire awards are required to have at least a 25% non-federal cost share. The recipient may choose to meet the cost share requirement by ensuring a minimum 25% non-federal share for the overall HMGP Post Fire award rather than on an individual activity basis. This strategy is referred to as global match.

Global match allows flexibility in which the non-federal cost share does not need to be 25% for each individual subaward. Instead, under the global match, the non-federal cost share for all the recipient's submitted subawards combined must equal 25% for the overall disaster. Global match allows the applicant to use any cost share match that exceeds the minimum requirement (referred to as overmatch) from certain subawards to alleviate the financial burden on other activities.

Recipients choosing this option must develop a cost share strategy as part of their Administrative Plan for FEMA review and approval.

The Administrative Plan must include a cost share strategy that explains how the applicant will:

- Apply this approach fairly and impartially to all subapplicants.
- Monitor the cost share for the overall award throughout the period of performance.
- Address any cost share shortfalls that may occur during the period of performance and at closeout.

²⁹² [44 CFR § 206.436\(f\)](#)

If the non-federal cost share of the award is less than 25% of the total amount at closeout, FEMA will recoup the amount of federal assistance needed to bring the cost share into compliance.

Insular areas including American Samoa, Guam, the Northern Mariana Islands and the U.S. Virgin Islands may have a portion of their cost share waived if program requirements allow.²⁹³

B.11. HMGP Post Fire: Disaster Spend Plan

The HMGP Disaster Spend Plan (Spend Plan) is a forecasting tool that FEMA uses to evaluate the assistance needs of HMGP during a disaster. FEMA manages the timing of HMGP project awards and ensures that assistance is available for obligation of approved activities.

It is critical that the recipient is an active participant in the Spend Plan. The recipient identifies assistance priorities for activities, forecasts assistance needs for future months and revises projections each month in coordination with FEMA. This process induces a more collaborative working relationship between FEMA and the recipient.

B.12. HMGP Post Fire: Quarterly Progress Reports

FEMA distributes spreadsheets to recipients each quarter. The spreadsheets are prepopulated with information pulled from the electronic application system to indicate the open, obligated activities that require Quarterly Progress Reports. The recipient coordinates with their subrecipients to collect project information to update the fields in the spreadsheet. The recipient then returns the Quarterly Progress Reports to their FEMA region by the due date.

The recipient shall submit a Quarterly Progress Report for each award no more than 30 calendar days after the quarter end date. [Table 9](#) describes the Quarterly Progress Report due dates.

Table 9: HMGP Post Fire Quarterly Progress Report Timing

Quarter	Quarter Dates	Report Due Dates
1	Oct. 1 – Dec. 31	Jan. 30
2	Jan. 1 – March 31	April 30
3	April 1 – June 30	July 30
4	July 1 – Sept. 30	Oct. 30

Progress reports should include:

- Reporting period, including fiscal year and quarter.

²⁹³ [48 U.S.C. § 1469a](#)

- Project identification information, including disaster number, FEMA application identification, project number, subrecipient name and project title.
- Significant activities and developments that have occurred or have shown progress during the quarter, including a comparison of actual accomplishments to the work schedule objectives established in the subaward.
- Percent completion and whether completion of work is on schedule; a discussion of any problems, delays or adverse conditions that will impair the ability to meet the timelines stated in the subaward; and anticipated completion date.
- For phased projects, if Phase I of a Phase II project is complete, the percent complete noted as a percentage of the entire project (e.g., 50% or whatever is deemed appropriate by the recipient), not 100%.
 - If Phase II is not eligible and will therefore not move forward, the project is considered 100% complete. However, if Phase II is eligible/obligated, the Quarterly Progress Report should reflect 100% only once the approved scope of work is completed under Phase II.
- Status of costs, including whether the costs are unchanged, overrun or underrun. If there is a change in cost status, the report should include a description of the change in the comment column. The amount disbursed to the subrecipient by project should also be included. If there is a change in cost status, the report should include a description of the change in the comment column. The amount disbursed to the subrecipient by project should also be included.
- A statement of whether a request to extend the award period of performance is anticipated, provided in the comment column.
- The total recipient drawdown amount and most recent drawdown date, the total amount of federal assistance disbursed, the subrecipient expenditure to date and the date of final payment to the subrecipient.
- The total number of properties acquired and their corresponding property identification numbers (for acquisition projects).
- Additional information as required by FEMA to assess the progress of an award.

FEMA may suspend drawdowns from SMARTLINK or PARS if Quarterly Progress Reports are not submitted on time.

B.13. HMGP Post Fire: Appeal Process

An eligible applicant, subapplicant, recipient or subrecipient may appeal any FEMA determination regarding applications or subapplications submitted for assistance under HMGP Post Fire.²⁹⁴ The subjects of these appeals include but are not limited to FEMA’s denial of an applicant/subapplicant eligibility, mitigation plan requirements, application period extensions, EHP considerations, project or plan eligibility, technical feasibility, cost effectiveness, open space compatibility and closeout determinations and de-obligations. Applicants, subapplicants, recipients or subrecipients may also appeal the placement of conditions on the award and any remedy of noncompliance that FEMA may take, including termination or suspension of the award.

FEMA will only consider written appeals that justify the request for reconsideration.²⁹⁵ The appeal must be submitted according to the procedures outlined below. At any point in the appeal process, the recipient may withdraw their appeal by submitting a written request to FEMA. and notifying the subapplicant/subrecipient. All second appeal decisions represent FEMA’s final administrative decision.²⁹⁶

B.13.1. HMGP Post Fire: Content for First and Second Appeals

The applicant/recipient and/or subapplicant/subrecipient must include the following in an appeal request:

- All relevant documentation supporting their position. Such documentation may include scope of work, budgets, EHP review, technical testimony, purchase receipts, before and/or after photographs and changes to the application or other relevant information that may help FEMA make a final decision.
- The specific amount of assistance (or amounts if there are multiple issues on appeal) in dispute, as applicable.
- Citations to the provisions of law, regulation or policy (applicable to the respective disaster) with which the applicant believes FEMA’s determination was inconsistent.
- Recipient’s recommendation, based on their review of the appeal from the subapplicant/subrecipient.

²⁹⁴ [44 CFR § 206.440](#)

²⁹⁵ [44 CFR § 206.440\(a\)](#)

²⁹⁶ [44 CFR § 206.440\(e\)\(3\)](#)

B.13.2. HMGP Post Fire: Appeal Deadline

An appellant is the applicant, subapplicant, recipient or subrecipient that is appealing a FEMA determination. Appellants must submit documentation within 60 calendar days after receiving the initial written notice of FEMA's determination on the action that is being appealed.²⁹⁷

Whether the appeal originated with the applicant/recipient or with a subapplicant/subrecipient, the appeal must be submitted in writing to the FEMA regional administrator by the recipient. The recipient must forward all appeals from a subapplicant/subrecipient with a written recommendation to the regional administrator within 60 calendar days of receipt of the appeal.²⁹⁸

If either the applicant or recipient submits the appeal after the 60-day deadline, FEMA will deny the appeal as untimely.

B.13.3. HMGP Post Fire: Appeal Review

Upon receipt of the appeal, FEMA reviews the appeal content and uses the administrative record and the laws, regulations and policies applicable to each case to analyze the appeal. FEMA may request additional information via a Request for Information (RFI) to adequately adjudicate the appeal or make its decision based on the documentation and information provided at the time of appeal submission. Within 90 calendar days of receiving the appeal, FEMA takes one of the following actions:²⁹⁹

- Requests additional information specifying the date FEMA must receive information. Within 90 calendar days of receiving the information (or within 90 calendar days of the expiration of the deadline to respond), FEMA provides the appeal decision to the recipient.
- Submits the appeal to an independent expert or experts for technical review and recommendations. Within 90 calendar days of receiving the technical review recommendations, FEMA provides its appeal decision to the recipient.³⁰⁰

In either case, FEMA provides a written decision to the recipient using a method that confirms receipt (through electronic application systems, return receipt mail, email with read-receipt acknowledgement or other methods that confirm receipt).

B.13.4. HMGP Post Fire: Request for Information for Appeals

If FEMA needs additional information, the agency will determine a date by which the information must be provided. Within 90 calendar days following the receipt of the requested additional

²⁹⁷ [44 CFR § 206.440\(c\)](#)

²⁹⁸ [44 CFR § 206.440\(c\)\(2\)](#)

²⁹⁹ [44 CFR § 200.440\(c\)\(3\)](#)

³⁰⁰ [44 CFR § 206.440\(d\)](#)

information (or 90 calendar days after the information was due), FEMA will notify the recipient in writing of the disposition of the appeal.

FEMA generally issues a RFI when it identifies specific documentation or information that, if provided, might impact the outcome of the appeal or assist the agency in responding adequately to the appeal.

B.13.5. HMGP Post Fire: First Appeal Process

The FEMA regional administrator is the decision-maker on first appeals.³⁰¹ Within 90 calendar days following the receipt of an appeal, FEMA will notify the recipient in writing of either the appeal decision or the need for additional information.

B.13.6. HMGP Post Fire: Second Appeal Process

The second appeal provides an opportunity for appellants to dispute the appeal decision made by the regional administrator. The assistant administrator for the Hazard Mitigation Directorate is the decision-maker on second appeals.³⁰² The assistant administrator's decision will be the final administrative decision of FEMA.³⁰³ [Figure 14](#) outlines the second appeal process for HMGP Post Fire.

³⁰¹ [44 CFR § 206.440\(b\)](#)

³⁰² [44 CFR § 206.440\(b\)\(2\)](#)

³⁰³ [44 CFR § 206.440\(e\)\(3\)](#)

Second Appeal Process for HMGP Post Fire

Appellant Process
(60 Days Max)

Recipient Process
(60 Days Max)

FEMA Regional Process
(14 Days Max)

FEMA Headquarters Process

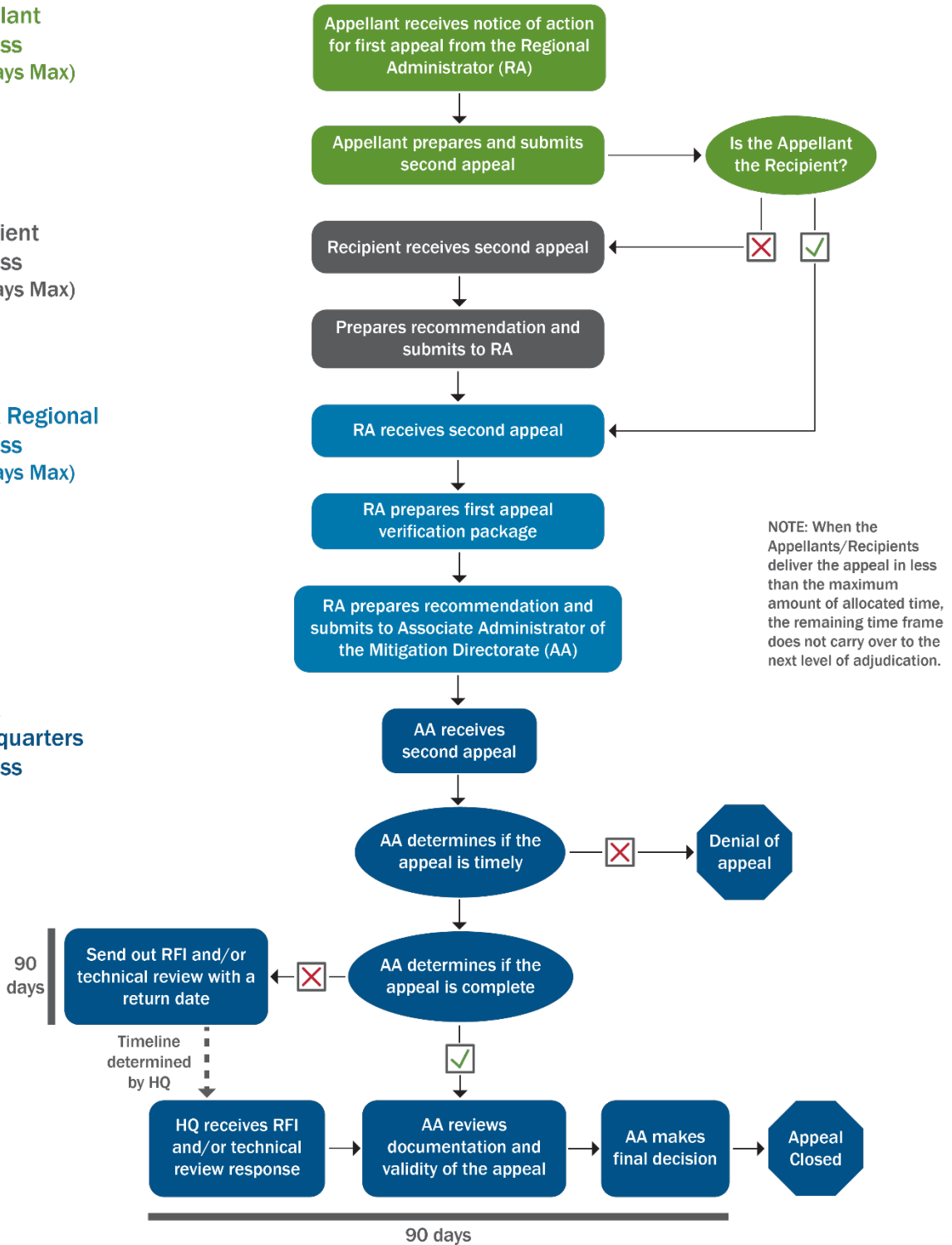


Figure 14. HMGP Post Fire Second Appeal Process Flowchart

B.13.6.1. HMGP Post Fire: Second–Appeal Actions – Appellant

To begin the second appeal process, appellants must submit documentation to FEMA within 60 calendar days after receiving the initial notice of the action on the first appeal. When the appellant is the subapplicant/subrecipient, the appeal must be submitted to the recipient prior to the expiration of the 60-day period.

B.13.6.2. HMGP Post Fire: Second Appeal Actions – Recipient

The recipient reviews the appeal and prepares a recommendation to submit to the FEMA regional administrator. The appeal and supporting documentation must be forwarded to the regional administrator within 60 calendar days of receipt of the second appeal. When the appellant is the recipient, no recommendation is needed because the appeal acts as its disposition. Otherwise, the recipient acts as the reviewer.

B.13.6.3. HMGP Post Fire: Second–Appeal Actions – Region

Upon receipt of the appeal package from the recipient, the FEMA regional administrator will review the package for regulatory requirements. Once completed, the regional administrator will forward the appeal, along with a recommendation, to the assistant administrator for the Hazard Mitigation Directorate.

An appeal verification package confirms that the appellant is eligible for a second appeal. As part of the verification package, the region should prepare the following items to submit to FEMA headquarters:

- A decision letter that documents the initial action taken by the region or recovery office regarding the HMGP Post Fire application or subapplication which precedes the first appeal and usually outlines the basis for denial.
- The set of first appeal documents submitted by the appellant opposing the decision letter.
- The recipient recommendation for first appeal, which documents the recipient’s position on the first appeal (if applicable).
- A notice of the action that documents the first appeal decision of the FEMA regional administrator, which is typically the action disputed in the second appeal.
- The set of second appeal documents submitted by the appellant opposing the notice of the action (first appeal decision).
- An appeal recommendation from the regional administrator and/or recovery office that documents the region’s preliminary review of the second appeal. If the appellant submits supplemental information, the region should note these changes. No matter which office (region or recovery office) provides the second appeal, the recommendation must accompany the appeal submission to FEMA headquarters.

B.13.6.4. HMGP Post Fire: Second–Appeal Actions – FEMA Headquarters

Upon receipt from the region, FEMA headquarters will make an independent assessment of the appeal. If all documentation is included, the assistant administrator for the Hazard Mitigation Directorate notifies the recipient in writing of the disposition of the appeal within 90 calendar days. If additional information is needed, regardless of an internal or external request, FEMA headquarters determines a date by which the RFI must be returned. In cases when the appeal requires a highly technical analysis, FEMA headquarters will consult an independent scientific or technical expert on the subject. Once FEMA headquarters has completed the RFI and technical review processes, FEMA headquarters notifies the recipient in writing of the disposition within 90 calendar days. The assistant administrator for the Hazard Mitigation Directorate makes the final decision.³⁰⁴ If the appeal deals with a mitigation planning subaward, the assistant administrator will coordinate with the National Mitigation Planning program.

A FEMA delay in issuing a decision beyond the applicable 90 or 180 calendar days does not compel the FEMA regional administrator or assistant administrator to decide in the appellant's favor.

C. Building Resilient Infrastructure and Communities Program

This section contains supplemental guidance specific to the BRIC program. If there are any inconsistencies between the HMA Guide and the applicable Notice of Funding Opportunity (NOFO), then the requirements in the applicable NOFO prevail.

C.1. BRIC: Guiding Principles

The BRIC program seeks to implement the following guiding principles to help communities undertake hazard mitigation projects to reduce risks they face from potential natural hazard events:

- Support state and local governments, tribes and territories through capability- and capacity-building to enable them to identify hazard mitigation actions and implement projects that reduce risks posed by natural hazards.
- Encourage and enable innovation while allowing flexibility, consistency and effectiveness.
- Promote partnerships and enable high-impact investments to reduce risk from natural hazards with a focus on critical services and facilities, public infrastructure, public safety, public health and communities.
- Provide a significant opportunity to reduce future losses and minimize impacts on the Disaster Relief Fund.

³⁰⁴ [44 CFR § 206.440\(e\)\(3\)](#)

- Support the adoption and enforcement of building codes, standards and policies that will protect the health, safety and general welfare of the public, consider changes in natural hazard risk, and have long-lasting impacts on community risk reduction, including for critical services and facilities and for future disaster costs.

Additional guiding principles also may be outlined in the NOFO governing the respective BRIC application cycle.

C.2. BRIC: Eligibility

For specific eligibility criteria to receive assistance under BRIC, including eligible applicants and subapplicants, refer to the FEMA “[Building Resilient Infrastructure and Communities](#)” webpage and the BRIC NOFO for the year funding is sought. General eligibility and requirements are also detailed in [Part 4](#).

C.2.1. BRIC: Eligible Activities

BRIC eligible activities and requirements can be found in the most recent year NOFO.

C.2.1.1. BRIC: Capability and Capacity Building Activities

Under BRIC, FEMA may provide financial assistance in the allocation to applicants to carry out the following activities:

- Expand or improve the administration of hazard mitigation assistance.
- Mitigate risk by creating and supporting partnerships.
- Develop or update hazard mitigation priorities and plans.
- Pursue project-scoping activities.
- Establish, adopt and enforce codes and standards consistent with applicable law.
- Reduce vulnerability by identifying and implementing other hazard mitigation activities, enhancing public safety, and improving the resilience of communities and critical infrastructure to natural hazards.

All capability- and capacity-building activities should result in a resource, strategy or tangible hazard mitigation product that will reduce or eliminate risk and damage from future natural hazards, increase resilience and public safety, and promote a culture of preparedness. Capability- and capacity-building activities that have already been initiated or completed are not eligible for assistance.

C.2.1.2. BRIC: Non-Financial Direct Technical Assistance

FEMA may provide non-financial direct technical assistance to promote the BRIC program, identify potential hazard mitigation projects, develop and review applications and mitigation plans, and provide training on grants management. Additional information about the availability of technical assistance will be included in the NOFO.

C.2.1.3. BRIC: Hazard Mitigation Projects

FEMA may provide competitively awarded financial assistance to applicants to implement cost-effective hazard mitigation projects designed to increase resilience and public safety and reduce injuries, loss of life, and damage and destruction of property, including damage to critical services and facilities.

C.2.1.4. BRIC: Management Costs

FEMA may provide financial assistance to reimburse the recipient and subrecipient for eligible and reasonable indirect costs, direct administrative costs and other administrative expenses associated with a specific hazard mitigation measure or project in an amount up to 15% of the total amount of the grant award, of which not more than 10% of the total award amount may be used by the recipient and 5% by the subrecipient for such costs.

C.3. BRIC: Available Assistance

For available assistance under BRIC, refer to the FEMA “[Building Resilient Infrastructure and Communities](#)” webpage and the NOFO for the year funding is sought.

C.4. BRIC: Assistance Restrictions

Assistance is available only in states and territories that have received a major disaster declaration in the previous seven years. Assistance is also available to federally recognized tribal governments who have received a major disaster declaration or are located partially or entirely within the boundaries of such states in accordance with [42 U.S.C. § 5133\(g\)](#).

FEMA will allocate assistance to states and territories for eligible activities consistent with the applicable statutory base and/or maximum allocations in the authorizing and appropriation laws. FEMA will administer the program as directed by Congress.

FEMA may include additional BRIC assistance restrictions in the NOFO. Such restrictions may include but are not limited to:

- An allocation to each state and territory applicant for mitigation capability- and capacity-building activities and mitigation projects.
- A set-aside for an allocation to eligible tribal government applicants for mitigation capability- and capacity-building activities and projects.

- An allocation of a portion of the assistance on a competitive basis among eligible applicants.

For all BRIC assistance restrictions, refer to the NOFO for the applicable year. The NOFO supersedes the information located within the HMA Guide.

C.5. BRIC: Management Costs

FEMA may provide financial assistance to reimburse the recipient and subrecipient for eligible and reasonable indirect costs, direct administrative costs and other administrative expenses associated with a specific mitigation measure or project. Applicants may apply for applicant management costs of up to 10% of the total BRIC grant application for management of the award and all selected subawards. Applicants requesting management costs must submit a separate management costs subapplication.

Subapplicants may apply for a maximum of 5% of the total funds requested in a subapplication for management costs. Subapplicants requesting management costs must include them as a separate line item in the subapplication budget. FEMA will provide 100% federal assistance for eligible management costs. Additional management costs considerations may be found in the NOFO. If any requirements in the HMA Guide conflict with the NOFO, the requirements in the NOFO take precedence.

C.6. BRIC: Application Period

For information regarding the BRIC application period, refer to the FEMA “[Building Resilient Infrastructure and Communities](#)” webpage and the NOFO for the year funding is sought.

C.7. BRIC: Cost Share

Generally, FEMA may provide up to 75% of the cost of eligible mitigation activities under BRIC. FEMA may provide up to 90% of the cost of eligible mitigation activities for small impoverished communities.³⁰⁵ The appropriate year’s NOFO may contain additional information about cost share availability.

Applicants cannot apply other federal award assistance toward the BRIC non-federal cost share unless the other federal statutory authority allows the assistance to be used to meet cost share requirements.³⁰⁶ FEMA encourages innovative use of public and private-sector partnerships to meet the non-federal cost share.

³⁰⁵ [42 U.S.C. § 5133\(h\)](#)

³⁰⁶ [2 CFR § 200.306\(b\)\(5\)](#)

C.7.1. BRIC: Small Impoverished Communities

Small impoverished communities are eligible for an increase in cost share up to 90% federal/10% non-federal under the BRIC program. Non-federal cost share may consist of cash, donated or third-party in-kind services, materials or any combination thereof.

A small impoverished community must be both:

- A community of 3,000 or fewer individuals identified by the applicant.
- Economically disadvantaged, with residents having an average per capita annual income not exceeding 80% of the national per capita income, based on the best available data.³⁰⁷

Applicants must certify and provide documentation of the community or jurisdictional status with the appropriate subapplication to justify the 90% cost share. If documentation is not submitted with the subapplication, FEMA will provide no more than the standard 75% of the total eligible costs.

Federally recognized tribal governments meeting the definition of a small impoverished community that apply to FEMA directly as applicants are eligible for a 90% federal cost share for their subapplications, which make up their overall BRIC grant application.

C.8. BRIC: Subapplication Requirements

For subapplications submitted to the national competition, the subapplicant, in coordination with the applicant, must identify a series of go/no-go milestones throughout the work schedule for mitigation activities that FEMA will review and approve. A go/no-go milestone is a major milestone in the project that if not completed on time may result in a cancellation of the subaward. Progress toward meeting the go/no-go milestones must be reported in the Quarterly Progress Reports submitted to the recipient and FEMA. At these go/no-go milestones, FEMA will evaluate the project's performance, schedule adherence and contribution to FEMA's program goals and objectives. As of the BRIC fiscal year 2022 NOFO, go/no-go milestones are required for national competition awards. Additional information on go/no-go milestone requirements can be found in the yearly NOFOs.

C.9. BRIC: Applicant Ranking of Subapplications

Applicants must rank each subapplication included in their application in order of their priority for assistance. Each subapplication must be assigned a unique rank in the electronic application system. Applicants must explain the rank given to each subapplication and demonstrate how it is consistent with their state or tribal (standard or enhanced) mitigation plan.

C.10. BRIC: Award Selection

FEMA will consider subapplications for further review based on a four-part review:

³⁰⁷ [42 U.S.C. § 5133\(a\)](#)

1. Eligibility and Completeness.
2. National Technical Review (mitigation projects only).
3. Technical Criteria.
4. Qualitative Criteria.

FEMA may identify a subapplication for further review out of rank order based on considerations such as program priorities, available assistance and policy factors.

FEMA will notify applicants whose subapplications are identified for further review. However, this notification and the applicant's compliance with FEMA-requested pre-award activities are not considered notification or guarantee of an award.

C.11. BRIC: Quarterly Progress Reports

Recipients are required to submit quarterly financial and progress reports to FEMA as a condition of their award acceptance throughout the period of performance, including partial calendar quarters, as well as for periods where no award activity occurs. Future awards and fund drawdowns may be withheld if these reports are delinquent, demonstrate a lack of progress or are insufficient in detail. Recipients are also required to submit closeout reports, which consist of the final financial and performance reports.

Recipients must include progress toward their go/no-go milestones in their Quarterly Progress Reports. [Table 10](#) describes the Quarterly Progress Report due dates.

Table 10: BRIC Quarterly Progress Report Timing

Quarter	Quarter Dates	Report Due Dates
1	Oct. 1 – Dec. 31	Jan. 30
2	Jan. 1 – March 31	April 30
3	April 1 – June 30	July 30
4	July 1 – Sept. 30	Oct. 30

C.11.1. BRIC: Financial Reporting Requirements

Recipients must report obligations and expenditures on a quarterly basis through the Federal Financial Report to FEMA. Recipients must file the Federal Financial Report electronically. Award recipients must submit a Federal Financial Report quarterly throughout the period of performance, including partial calendar quarters, as well as for periods where no award activity occurs.

C.11.2. BRIC: Progress Reporting Requirements

Recipients must submit a Quarterly Progress Report to FEMA in the electronic application system throughout the period of performance, including partial calendar quarters, as well as for periods where no award activity occurs.

Reports are due within 30 calendar days from the end of the first federal quarter, following the initial award and thereafter until the award ends.

For more information regarding BRIC reporting requirements, refer to the NOFO.

C.12. BRIC: Appeal Process

An eligible applicant/recipient or subapplicant/subrecipient may request an appeal of either of the following actions:

- FEMA's denial of its application or subapplication for mitigation activities for which there is an indication of a substantive technical or procedural error.
- A remedy FEMA has taken for noncompliance with federal statutes, regulations or the terms and conditions of the award that results in suspension or termination of all or part of the award.

FEMA provides only one opportunity to appeal a determination. FEMA will only consider written appeals that justify the request for reconsideration.

Whether the appeal originated with the applicant/recipient or with a subapplicant/subrecipient, the applicant or recipient must submit an appeal in writing to the assistant administrator for the Hazard Mitigation Directorate within 60 calendar days after receiving a notice of the action that is being appealed.

The subapplicant/subrecipient must submit its appeal in writing to the recipient, after which the recipient must review and evaluate the subrecipient's appeal before submission to FEMA. The recipient must forward all appeals from a subrecipient with a written recommendation to FEMA within 60 calendar days of receiving the appeal from a subrecipient.

For denials of applications or subapplications for mitigation activities, the appeal must identify any substantive technical or procedural error committed by FEMA. FEMA will only consider the information provided in the application or subapplication as supporting documentation.

For remedies FEMA has taken for noncompliance, the appeal must contain documented justification supporting the appellant's position; specify the monetary figure or FEMA action in dispute; and identify the provisions in federal law, regulation or policy with which the appellant believes the initial action was inconsistent.

The applicant, subapplicant, recipient or subrecipient will be notified in writing of the disposition of the appeal or the need for additional information. For more information regarding the BRIC appeal process, refer to the NOFO.

C.12.1. BRIC: Appeal Review and Determination

Upon receipt of the appeal, FEMA reviews the appeal content and uses the administrative record and the laws, regulations and policies applicable to the respective case to analyze the appeal. FEMA may request additional information via an RFI to adequately adjudicate the appeal or make its decision based on the documentation and information provided at the time of appeal submission. Within 90 calendar days of receiving the appeal, FEMA takes one of the following three actions:

- Requesting additional information specifying the date FEMA must receive information. Within 90 calendar days of receiving the information (or within 90 calendar days of the expiration of the deadline to respond), FEMA provides the appeal decision to the recipient.
- Submitting the appeal to an independent expert or experts for technical review and recommendations. Within 90 calendar days of receiving the technical review recommendations, FEMA provides the appeal decision to the recipient.
- Providing a written decision to the recipient using a method that confirms receipt (through electronic application systems, return receipt mail, email with read-receipt acknowledgment or other methods that confirm receipt).

If the decision is to grant the appeal, FEMA headquarters will take the appropriate action.

C.12.2. BRIC: Request for Information Appeal

If additional information is needed, FEMA will determine a date by which the information must be provided. Within 90 calendar days following the receipt of the requested additional information (or 90 calendar days after the information was due), FEMA will notify the recipient in writing of the disposition of the appeal.

FEMA generally issues an RFI when it identifies specific documentation or information that if provided might impact the outcome of the appeal or assist FEMA in adequately responding to the appeal.

D. Flood Mitigation Assistance

This section contains supplemental guidance specific to FMA. If there are any inconsistencies between the HMA Guide and the applicable Notice of Funding Opportunity (NOFO), then the requirements in the applicable NOFO prevail.

D.1. FMA: Eligibility

FMA is a competitive program. For specific eligibility criteria to receive assistance under FMA, refer to the “[Flood Mitigation Assistance Grant](#)” webpage and the FMA NOFO for the year funding is sought. In addition, general eligibility and requirements are detailed in [Part 4](#).

D.1.1. FMA: Eligible Properties

Properties included in a project subapplication for FMA must be insured by the National Flood Insurance Program (NFIP) prior to the opening of the application period and be maintained for the life of the structure.³⁰⁸ For projects where structures remain (elevation, reconstruction, floodproofing, etc.), flood insurance must be maintained through the completion date of the mitigation activity and for the life of the structure. For projects where no structures remain (acquisition and structure demolition or relocation, etc.) flood insurance must be maintained until the property is purchased by the subrecipient; the structure must be demolished and removed within 90 days of settlement.³⁰⁹ Absence of flood insurance where required may be grounds for ineligibility of the project and denial of reimbursement or recoupment of grant funds.

Under certain circumstances, properties may be eligible for a federal cost share greater than 75%. Properties must meet one of the two definitions below to receive an increased federal cost share:³¹⁰

- The property is a severe repetitive loss structure.³¹¹ In this case, the property is eligible for a 100% federal cost share. A severe repetitive loss structure is a structure that is covered under an NFIP policy and has incurred flood-related damage:
 - For which four or more separate claims payments have been made under flood insurance coverage with the amount of each claim (including building and contents payments) exceeding \$5,000 and with the cumulative amount of such claims payments exceeding \$20,000; or
 - For which at least two separate flood insurance claims payments (building payments only) have been made, with the cumulative amount of such claims exceeding the value of the insured structure.
- The property is a repetitive loss structure.³¹² In this case, the structure is eligible for a 90% cost share. A repetitive loss structure is a structure covered under an NFIP policy that:

³⁰⁸ [44 CFR § 77.6 \(a\)\(2\)](#)

³⁰⁹ [44 CFR § 80.17\(d\)](#)

³¹⁰ Section 1370 of the National Flood Insurance Act of 1968, Public Law 90-448 (Aug. 1, 1968), as amended; [42 U.S.C. § 4104c\(h\)\(2\)](#)

³¹¹ [42 U.S.C. § 4104c\(h\)\(3\)](#)

³¹² [42 U.S.C. § 4121\(a\)\(7\)](#)

- Has incurred flood-related damage on two occasions, in which the cost of repair, on average, equaled or exceeded 25% of the value of the structure at the time of each such flood event; and
- At the time of the second incidence of flood-related damage, the contract for flood insurance contains increased cost of compliance coverage.

There have been multiple statutory definitions for repetitive loss structures over time. For a structure to be eligible for an increased federal cost share for FMA assistance, a property must meet either the FMA repetitive loss or severe repetitive loss definition in [42 U.S.C. § 4104c\(h\)\(2\)](#), as amended.

D.1.2. FMA: Financial Technical Assistance

FEMA may provide financial technical assistance to any applicant awarded at least \$1 million (federal share) in FMA grants in the prior fiscal year.³¹³ A technical assistance award cannot exceed \$50,000 (federal share) to any single applicant in any fiscal year.

Eligible technical assistance activities may include:

- Promoting FMA to communities.
- Visiting sites with communities/applicants.
- Delivering technical assistance to support mitigation planning.
- Developing and reviewing project applications.
- Participating in planning meetings.
- Providing planning workshops/materials.
- Performing Benefit-Cost Analysis and providing grants management workshops/materials.
- Funding, in part, salaries and expenses of staff working to develop, review, monitor and close FMA awards and subawards.

Essentially, a technical assistance award and a management costs award can achieve many of the same objectives. A technical assistance award is meant to allow recipients to maintain a viable FMA program over time. Applicants must ensure activities are not duplicated between the two awards. For instance, duplication would exist if a technical assistance award provided assistance for project development that the applicant seeks reimbursement for under management costs. Proper record-keeping is important to ensure activities are not duplicated. For additional information regarding FMA technical assistance, refer to the most recent NOFO.

³¹³ [42 U.S.C. § 4104c\(c\)\(3\)\(J\); 44 CFR § 77.6\(c\)\(3\)](#)

D.2. FMA: Available Assistance

For available assistance under FMA, refer to the FEMA “[Flood Mitigation Assistance Grant](#)” webpage and the NOFO for the year funding is sought.

D.3. FMA: Assistance Restrictions

For FMA, the following assistance restrictions apply:

- Individual planning awards or subawards using FMA shall not exceed a federal share of \$50,000 to any applicant or \$25,000 to any subapplicant.
- FMA planning assistance can only be used to create or update a hazard mitigation plan that meets the planning criteria outlined in [44 CFR Part 201](#) and provides for reduction of flood losses to structures for which NFIP coverage is available.

D.4. FMA: Management Costs

FEMA may provide financial assistance to reimburse the recipient and subrecipient for eligible and reasonable indirect costs, direct administrative costs and other administrative expenses associated with a specific mitigation measure or project. Applicants may apply for applicant management costs of up to 10% of the total FMA application for management of the award and all selected subawards.³¹⁴ Applicants requesting management costs must submit a separate management costs subapplication.

Subapplicants may apply for a maximum of 5% of the total funds requested in a subapplication for management costs.³¹⁵ Subapplicants requesting management costs must include them as a separate line item in the project or planning subapplication.

FEMA provides management costs according to the federal cost share of the corresponding project(s).

Additional management costs requirements may be found in the NOFO. If any requirements in the HMA Guide conflict with the NOFO, the requirements in the NOFO take precedence.

D.5. FMA: Application Period

For information regarding the FMA application period, refer to the FEMA “[Flood Mitigation Assistance Grant](#)” webpage and the NOFO for the year funding is sought.

³¹⁴ [44 CFR § 77.7\(a\)\(1\)\(i\)](#)

³¹⁵ [44 CFR § 77.7\(a\)\(1\)\(ii\)](#)

D.6. FMA: Cost Share

Consistent with the legislative changes made in the [Biggert-Waters Flood Insurance Reform Act of 2012](#) to the [National Flood Insurance Act of 1968](#), cost share availability under FMA depends on the type of properties included in the subapplication.³¹⁶

FEMA's contributions to the federal share are outlined below:

- In the case of mitigation activities to severe repetitive loss structures, FEMA may contribute to an amount up to either of the following:
 - 100% of all eligible costs if the activities are technically feasible and cost effective.
 - The expected savings to the National Flood Insurance Fund from expected avoided damage through acquisition and demolition or relocation activities if the activities will eliminate future payments from the National Flood Insurance Fund for severe repetitive loss structures through an acquisition and demolition or relocation activity.
- In the case of mitigation activities to repetitive loss structures, FEMA may contribute to an amount up to 90% of all eligible costs.
- In the case of all other activities, FEMA may contribute to an amount up to 75%.

The appropriate year's NOFO may contain additional information about cost share availability.

Structures with varying cost share requirements can be submitted in one application. Applicants must provide documentation in the project application showing how the final cost share was derived. Applicants must enter the final cost share into the electronic application system and attach documentation to the application showing how the final cost share was derived.

D.7. FMA: Applicant Ranking of Subapplications

Applicants must rank each subapplication included in their application in order of priority for assistance. Each subapplication must be assigned a unique rank in the electronic application system. Applicants must explain the rank given to each subapplication and demonstrate how it is consistent with their state or tribal (standard or enhanced) mitigation plan.

D.8. FMA: Award Selection

FEMA will identify subapplications for further review based on several criteria including but not limited to savings to the National Flood Insurance Fund, applicant rank and property status (e.g., repetitive loss structure, severe repetitive loss structure). FEMA also may identify a subapplication

³¹⁶ Public Law 112-141 (July 6, 2012); Public Law 90-448 (Aug. 1, 1968), as amended, [42 U.S.C. § 4104\(d\)](#)

for further review out of rank order based on considerations such as program priorities, available assistance and other factors.

FEMA will notify applicants whose subapplications are identified for further review. However, this notification and the applicant’s compliance with FEMA-requested pre-award activities are not considered notification or guarantee of an award.

D.9. FMA: Quarterly Progress Reports

Recipients are required to submit quarterly financial and progress reports to FEMA as a condition of their award acceptance throughout the period of performance, including partial calendar quarters, as well as for periods where no award activity occurs. Future awards and fund drawdowns may be withheld if these reports are delinquent, demonstrate a lack of progress or are insufficient in detail. Recipients are also required to submit closeout reports, which consist of the final financial and performance reports.

[Table 11](#) describes the Quarterly Progress Report due dates.

Table 11: FMA Quarterly Progress Report Timing

Quarter	Quarter Dates	Report Due Dates
1	Oct. 1 – Dec. 31	Jan. 30
2	Jan. 1 – March 31	April 30
3	April 1 – June 30	July 30
4	July 1 – Sept. 30	Oct. 30

D.9.1. FMA: Financial Reporting Requirements

Recipients must report obligations and expenditures on a quarterly basis through the Federal Financial Report to FEMA. Recipients must file the Federal Financial Report electronically. Award recipients must submit a Federal Financial Report quarterly throughout the period of performance, including partial calendar quarters, as well as for periods where no grant award activity occurs.

D.9.2. FMA: Progress reporting Requirements

Recipients must submit a Quarterly Progress Report to FEMA through the electronic application system throughout the period of performance, including partial calendar quarters, as well as for periods where no award activity occurs.

Reports are due within 30 calendar days from the end of the first federal quarter, following the initial award and thereafter until the award ends.

For more information regarding FMA reporting requirements, refer to the NOFO.

D.10. FMA: Failure to Make Federal Award Within Five Years

Any subapplication not awarded within five years of the date of the application is considered to be denied. Any assistance amounts allocated for such applications will remain in the National Flood Insurance Fund and will be made available for future awards.³¹⁷

D.11. FMA: Reconsideration

An eligible applicant/recipient or subapplicant/subrecipient may request a reconsideration of either of the following actions:

- FEMA's denial of its application or subapplication for mitigation activities for which there is an indication of a substantive technical or procedural error.
- A remedy FEMA has taken for noncompliance with federal statutes, regulations or the terms and conditions of the award, including suspension and termination of the award.³¹⁸

For more information regarding the FMA reconsideration process, refer to the applicable NOFO.

D.11.1. FMA: Denial of Application or Subapplication

For denials of applications or subapplications for mitigation activities, the reconsideration request must identify any substantive technical or procedural error committed by FEMA.

For more information regarding the denial of a FMA application or subapplication, refer to the applicable NOFO.

D.11.2. FMA: Denial of Remedies Taken for Noncompliance

FEMA will reconsider determinations of noncompliance, additional award conditions or its decision to terminate a federal award. The recipient must send information for reconsideration to FEMA headquarters within 60 days after receipt of a notice of the action.

A FEMA decision will uphold or overturn a decision regarding an award based on information provided by the recipient and subrecipient as well as application, award and subaward management records collected by FEMA. FEMA will notify the recipient of its decision regarding the request for reconsideration.³¹⁹

E. Public Assistance Hazard Mitigation

Under Section 406 of the Stafford Act, FEMA has the authority to provide noncompetitive funding for cost-effective hazard mitigation measures for disaster-damaged facilities. FEMA refers to Public

³¹⁷ [42 U.S.C. § 4104c\(g\)](#)

³¹⁸ [2 CFR § 200.342](#)

³¹⁹ [44 CFR § 77.8\(e\)](#)

Assistance funded hazard mitigation as Public Assistance Hazard Mitigation. To be eligible for Public Assistance Hazard Mitigation, the mitigation measures must reduce future damage to the facility, as well as be cost-effective, technically feasible and compliant with EHP requirements. Generally, Public Assistance eligible mitigation measures are intended to protect the damaged portion(s) of the facility. If the applicant proposes mitigation measures that are distinct and separate from the damaged portion(s) of the facility, FEMA evaluates the proposal and determines eligibility on a case-by-case basis. FEMA considers how the mitigation measure protects the damaged portion(s) of the facility and whether the mitigation measure is reasonable based on the extent of the damage.

Each grant is a distinct assistance source, but sources may be used together to more completely fund a hazard mitigation project and promote resilience. While applicants and subapplicants have the discretion to apply for both Public Assistance and HMA grants, FEMA encourages applicants and subapplicants to maximize assistance from Public Assistance.

Applicants may use more than one grant program to implement mitigation measures at the same facility, but not for the same work. Applicants cannot use assistance from one of these mitigation programs to meet the non-federal cost share of work funded under the other mitigation program. A combination of assistance may be appropriate where Public Assistance Hazard Mitigation is used to provide protection to portions of a facility that were damaged by a declared disaster hazard mitigation assistance is used to protect undamaged portions of the facility or a nearby, undamaged facility (refer to examples in callout box). If HMGP and PA are considered to fund a mitigation activity, applicants and subapplicants should also assess potential duplication of benefits issues. For more on duplication of benefits, refer to [Part 4](#).

[FEMA Policy #104-009-2](#), *Public Assistance Program and Policy Guide, Version 4* (June 1, 2020), provides further details on PA Hazard Mitigation.

Examples of HMGP and PA Hazard Mitigation

The following project examples illustrate how an applicant or subapplicant can use both HMGP and PA Hazard Mitigation to maximize the protection of a facility or facilities from future damage:

- A school damaged by wind can be repaired and mitigated with shutters or impact-protective glazing using PA assistance and enhanced with an HMGP-assisted safe room.
- Damaged portions of a building in a seismic risk zone damaged by flooding can be repaired and mitigated with dry floodproofing and seismic upgrades using PA Hazard Mitigation. On a case-by-case basis, PA Hazard Mitigation funding may also be available for the undamaged portions of the facility. If the undamaged portions of the facility are not eligible for PA Hazard Mitigation, HMGP funds may be used to protect those undamaged portions of the building from flood and seismic hazards.
- While a road damaged by a landslide is being repaired and mitigated using PA, HMGP assistance can be used to bury undamaged aboveground power lines running along the road.

E.1. Public Assistance Post-Disaster Code Enforcement

In addition to mitigating damage to a facility, Public Assistance may be used for post-disaster building code enforcement. As part of PA, FEMA is authorized to provide assistance to state and local governments for building code and floodplain administration and enforcement, including inspections for substantial damage compliance, for a period of not more than 180 days after the major disaster is declared. More information can be found in [FEMA Policy #204-079-01, Building Code and Floodplain Management Administration and Enforcement](#) (Oct. 15, 2020).

F. HMA Program-Specific Resources



HMA Program-Specific Resources

- How a Disaster Gets Declared: <https://www.fema.gov/disasters/how-declared>
- *Public Assistance Reasonable Cost Evaluation – Hazard Mitigation Grant Program Crosswalk* FEMA job aid: https://www.fema.gov/sites/default/files/2020-07/reasonable-costs-crosswalk_3-23-2020.pdf
- *Checklist: Hazard Mitigation Grant Program Administrative Plan:* https://www.fema.gov/sites/default/files/2020-10/fema_hazard_mitigation_grant_program_admin_plan_checklist_03-29-19.pdf
- FEMA Program Support Material: *Application Support Materials for the Hazard Mitigation Grant Program:* <https://www.fema.gov/grants/mitigation/hazard-mitigation/when-you-apply/program-support-materials>
- Hazard Mitigation Assistance Document Library: <https://www.fema.gov/grants/mitigation/learn/library>

Part 11. Capability- and Capacity-Building

This section provides guidance on capability- and capacity-building activities that are generally eligible for Hazard Mitigation Assistance (HMA). Each activity section generally follows the same outline by first providing an overview of the project type, followed by eligibility criteria and a description of eligible activities, application and submission information, subaward implementation, closeout and additional resources. To be eligible for HMA, all mitigation activities must meet the general eligibility criteria and other requirements described in [Part 4](#).

A. Hazard Mitigation Planning and Planning-Related Activities

State, local, tribal and territorial governments rely on Hazard Mitigation Assistance (HMA) planning grants to create a robust mitigation planning process. This process engages partners and stakeholders to identify and implement actions to improve community resilience.

Hazard mitigation planning is foundational for mitigation and resilience investments. Mitigation plans are strategic documents, updated every five years, to guide hazard mitigation programs to reduce risk over the long-term, such as over the lifespan of a community asset. Hazard mitigation is most effective when it is integrated with comprehensive, long-term community and economic planning before a hazard event occurs. Every five-year update is an opportunity to advance the work previously accomplished while right-sizing and focusing the update on community priorities.

The purpose of mitigation planning is to identify state, local, tribal and territorial government policies, programs and actions that can be implemented to reduce risk and future losses over the long term from future hazard events, including slow-onset hazards. These hazard mitigation policies, programs and actions are identified by assessing natural hazards and their risks to and the vulnerability of people, property, infrastructure and the economy, while involving a wide range of stakeholders in the planning process. The planning process evolves into a comprehensive hazard mitigation strategy that reduces the identified risks. Therefore, the hazard mitigation strategy section of the plan identifies a range of specific hazard mitigation actions and activities. This section includes an action plan describing how identified hazard mitigation activities will be prioritized, implemented and administered.³²⁰

In summary, a mitigation plan demonstrates the commitment to reduce risks and vulnerabilities from natural hazards and serves as a strategic guide for a wide range of decision-makers as they commit public or private resources to increasing individual and community resilience.

³²⁰ [44 Code of Federal Regulations \(CFR\) § 201.6\(c\)\(3\)\(iii\)](#)

Regulations outline the following types of plans for which FEMA has issued mitigation planning guidance:

- State mitigation plan: [44 Code of Federal Regulations \(CFR\) § 201.4](#); and FEMA Policy FP 302-094-2: [State Mitigation Planning Policy Guide](#) (Version 2.0, May 19, 2025).
- Enhanced state mitigation plan: [44 CFR § 201.5](#); and FEMA Policy FP 302-094-2: [State Mitigation Planning Policy Guide](#) (Version 2.0, May 19, 2025).
- Tribal mitigation plan: [44 CFR § 201.7](#); and FEMA Policy [FP 306-112-1: Tribal Mitigation Plan Review Guide](#) (Dec. 5, 2017).
- Enhanced tribal mitigation plan: [44 CFR § 201.5](#), [44 CFR § 201.7](#) and FEMA Policy [FP 306-112-1: Tribal Mitigation Plan Review Guide](#) (Dec. 5, 2017).
- Local mitigation plan: [44 CFR § 201.6](#); FEMA guidance: [Local Mitigation Plan Review Guide](#) (Oct. 1, 2011); and FEMA Policy [FP-206-21-0002: Local Mitigation Planning Policy Guide](#) (effective April 19 2025).

To apply for and receive assistance under any HMA program, applicants and subapplicants generally must have an approved mitigation plan that meets all regulatory, HMA policy and mitigation planning policy requirements.³²¹

In addition to having a mitigation plan that meets the requirements, states and tribes may develop enhanced plans. To obtain enhanced plan status, states and tribes must demonstrate to FEMA the ability to develop and implement a comprehensive approach to hazard mitigation, the ability to effectively use available resources to reduce risks and increase resilience, and the capability to manage increased Hazard Mitigation Grant Program (HMGP) assistance.

HMA programs also provide assistance for planning-related activities. Planning-related activities assist state, local, tribal and territorial governments in updating their hazard mitigation strategies, enhancing the current plan with new data or information, delivering planning-related training, adopting land use ordinances to increase resilience and integrating mitigation plans into other planning efforts.

A.1. Mitigation Planning Process

To obtain assistance under any HMA program, state, local, tribal and territorial governments must generally have a FEMA-approved hazard mitigation plan.³²²

³²¹ [44 CFR § 201.4\(a\)](#), [44 CFR § 201.6\(a\)](#), [44 CFR § 201.7\(a\)](#), [44 CFR § 77.6\(b\)](#); (as applicable), and [44 CFR § 206.434\(b\)](#)

³²² [44 CFR § 206.434\(b\)](#), [44 CFR § 201.1](#)

The purpose of mitigation planning is for state, local, tribal and territorial governments to identify the natural hazards that impact them and actions and activities to reduce any losses from those hazards, as well as establish a coordinated process to implement the plan, taking advantage of a wide range of resources.³²³ Identifying risks and developing broad long-term strategies for protecting people and property from future events is key in breaking the cycle of disasters and repeated damage. Regulations addressing hazard mitigation plans can be found at [44 CFR Part 201](#).

Many local plans are multijurisdictional (i.e., several towns, villages, municipalities, boroughs, special districts and sometimes counties, may participate in one planning process). Each participating jurisdiction must carefully review the policy requirements for participating and adopting a multijurisdictional plan.

The mitigation planning process varies from jurisdiction to jurisdiction, but regardless of the plan type, a state, local, tribal or territorial mitigation plan development/update process comprises the following four phases.

A.1.1. Assemble Resources

A state, local, tribal or territorial government may organize needed planning resources for a successful mitigation planning process, such as securing technical expertise; defining the planning area; and identifying key individuals, agencies, neighboring jurisdictions, businesses, community-based organizations or other stakeholders to participate in the process.

Engagement during plan development can provide important information about community needs and have significant impacts on proposed actions for HMA applications or subapplications. State, local, tribal and territorial governments are encouraged to include representatives of the whole community in planning and scoping the project to gain broad community participation, support and ensure benefits to all populations. Building on existing community networks can also be critical for generating broad support for future, specific hazard mitigation activities.

During this phase, it is important to define the planning area including identifying assets that may be outside of jurisdictional boundaries but should be taken into consideration in the planning process (e.g., a drinking water reservoir owned by a city but located in another jurisdiction).

A.1.2. Assess Risks

The state, local, tribal or territorial government may then assess risks by identifying the characteristics and potential consequences of hazards. It is important to understand what geographic areas each hazard might impact and what people, property or other assets might be vulnerable. A risk assessment generally consists of hazard identification, hazard profiles, asset inventory and an estimation of potential human and economic losses based on the exposure and

³²³ [44 CFR § 201.1\(b\)](#)

vulnerability of people, buildings, infrastructure and other community assets to current and future risks.

A.1.3. Develop a Hazard Mitigation Strategy

The state, local, tribal or territorial government may develop a long-term hazard mitigation strategy for avoiding or minimizing the effects of disasters. Based on public input and identified risks, communities develop hazard mitigation goals and actions as part of a strategy for mitigating hazard-related losses. The strategy is a community's approach for implementing hazard mitigation activities that are cost-effective, technically feasible and environmentally sound as well as allowing strategic investment of limited resources. The strategy is grounded in the jurisdiction's unique set of regulatory, administrative and financial capabilities to undertake hazard mitigation. The hazard mitigation strategy also includes a description of how the hazard mitigation actions will be implemented and administered. Hazard mitigation goals and actions should be broad and inclusive of the community's hazard mitigation priorities. These priorities require updating during the five-year planning period because of changes to risk and vulnerability, including the effects of disasters.

A.1.4. Adopt and Approve the Hazard Mitigation Plan

The next step in the process is the adoption and implementation of the hazard mitigation plan. The hazard mitigation plan must be approved and adopted by the jurisdiction, special district or tribe, and then forwarded by the state or tribe to FEMA for review and approval.³²⁴ Under a Program Administration by States (PAS) agreement with FEMA, some states have been delegated local plan approval; however, FEMA still issues an approval letter after the state notifies the agency that they have approved the plan. If an HMA subaward was used to develop or update the plan, failure to adopt the plan may result in disallowance of the costs. Once FEMA approves the plan, it can be used to implement hazard mitigation actions and obtain hazard mitigation assistance for specific activities.

A.1.5. Implement and Maintain the Hazard Mitigation Plan

The applicant or subapplicant should use the mitigation plan to facilitate the development of hazard mitigation action alternatives using FEMA and other assistance sources. Incorporating these considerations from the mitigation plan into the scoping process for potential hazard mitigation activities funded by HMA increases the efficiency of program review and ensures that all HMA program requirements are met. The hazard mitigation strategy is the starting point for subapplicants to identify current needs and potential hazard mitigation activities as discussed in the following steps.

To ensure success, the plan must remain a relevant, living document through routine maintenance. The state, local, tribal or territorial government needs to conduct periodic evaluations to assess

³²⁴ [44 CFR § 201.3\(b\)](#)

changing risks and priorities and make revisions as needed. For more information, refer to the FEMA [“Hazard Mitigation Planning”](#) webpage.

Hazard mitigation assistance may be used to update plans. State, local, tribal and territorial officials should keep their plans up to date and start the process to secure funding well in advance of the plan expiration date, typically 2 to 3 years in advance. When developing an HMA subapplication or application for a hazard mitigation plan update, the subapplicant or applicant should (1) reference prior approved mitigation plans and the Plan Review Tool for areas and suggestions on improvement in the next update cycle and (2) describe the extent to which the plan maintenance process was followed to “right size” the planning grant scope. Additionally, the applicant or subapplicant should consider scheduling time with the state, local, tribal or territorial official and/or FEMA planner to discuss the appropriate scope needed for the update based on changes in development, risk and past disaster activity.

A.2. Eligibility

Two types of planning activities may be eligible for HMA:

- **New plan creation or plan updates:** The creation of a new plan and the update of an existing plan are eligible activities under HMGP, HMGP Post Fire, BRIC and Flood Mitigation Assistance (FMA).
- **Planning-related activities:** Planning-related activities are eligible under HMGP, HMGP Post Fire, BRIC and FMA. Activity eligibility under BRIC and FMA is established annually through the publication of a Notice of Funding Opportunity (NOFO). If any information in this document conflicts with the NOFO, the information in the NOFO will take precedence.

A.2.1. New Plan Creation and Plan Updates

New plan creation and plan updates are eligible under HMGP, HMGP Post Fire, BRIC and FMA. A planning subaward for a new or updated mitigation plan must result in a mitigation plan adopted by the jurisdiction(s) and approved by FEMA, consistent with the regulatory requirements in [44 CFR Part 201](#) and [44 CFR Part 206](#) and applicable mitigation planning regulations and policy.

For FMA, a plan must provide for reduction of flood losses to structures for which National Flood Insurance Program (NFIP) coverage is available. Additionally, FEMA will only provide assistance if the community seeking the assistance is participating in the NFIP.

A.2.2. Planning-Related Activities

State, local, tribal and territorial governments with a current approved hazard mitigation plan are eligible to apply for assistance for planning-related activities under HMGP, HMGP Post Fire, BRIC or FMA. To expedite and strengthen the effectiveness of hazard mitigation implementation across the country, FEMA supports a variety of planning-related activities through HMGP, HMGP Post Fire, BRIC and FMA. This assistance for planning-related activities provides flexibility to further reduce risk and integrate hazard mitigation and resilience principles into other types of ongoing planning and

development activities, such as making land use ordinances and building codes more disaster resilient. All planning and planning-related activities must result in a clearly defined product or products.

Under HMGP, HMGP Post Fire, BRIC and FMA, eligible mitigation planning-related activities include:

- Updating or improving sections of the current approved mitigation plan, such as:
 - Updates to the risk and vulnerability assessment based on new, targeted information. This new information may come from supporting studies, such as an economic analysis, or from incorporating data available from Risk Mapping, Assessment, and Planning (Risk MAP); FEMA; or other federal agencies.
 - Strengthening the hazard mitigation strategy by incorporating actions to reduce vulnerabilities over the long term as well as linking proposed actions to available assistance, such as:
 - HMA.
 - Public Assistance.
 - Rehabilitation of High Hazard Potential Dam program.
 - Department of Housing and Urban Development Community Development Block Grants assistance.
 - Environmental Protection Agency loans and assistance.
 - National Oceanic and Atmospheric Administration Coastal Zone Management.
 - Economic Development Administration Comprehensive Economic Development Strategy.
 - State assistance.
 - Private investments, such as from utilities and other lifelines.
 - Incorporating form-based design and land use development, resilience, historic properties and cultural resources information.
 - Incorporating vulnerable and under-resourced populations into the planning process, risk assessment and/or mitigation strategy by using methodology consistent with applicable law.
 - Incorporating information into the mitigation plan to gain certification under the Emergency Management Accreditation Program.

- Integrating mitigation planning with flood management planning to gain credit under the NFIP Community Rating System (CRS).
- Developing evaluation criteria, measures and indicators to track hazard mitigation progress to lower risk.
- Integrating information from state, tribal, or local mitigation plans (specifically, risk assessment or hazard mitigation strategies), with other planning efforts and integrating information from other plans into state, tribal, or local mitigation plans, such as:
 - Disaster recovery strategy (pre- or post-disaster), preparedness or response plans, including disaster recovery plans to protect cultural, artistic and historic resources.
 - Comprehensive plans (e.g., land use, economic development).
 - Resilience strategy.
 - Capital improvement or economic development plans.
 - Resource management/conservation plans (e.g., stormwater, open space).
 - Water resource or watershed management plans.
 - Water shortage plans or demand-reduction measures or plans.
 - Long-range transportation or utility plans to assess asset protection, design modifications, assess relocation and realignment, or infrastructure disinvestment.
 - Planning efforts that evaluate mitigation projects and activities, such as:
 - Opportunities for other property acquisition tools such as conservation land trusts, leasebacks, land swaps and life estates.
 - Adoption and/or regulatory tools such as living shorelines, setbacks and buffers, development permit conditions and zoning and overlay zones.
 - Market-based tools, such as transfer of development rights.
 - Other long-term community planning initiatives (e.g., transportation, housing, education, recreation, landmark and heritage, redevelopment, ecosystem, drought, wildfire [such as prescribed burn plans or traditional ecological knowledge] and air quality [such as smoke]).
- Building capability through delivery of technical assistance and training by:
 - Introducing officials, leaders, staff, residents, cultural stewards and other stakeholders to hazard mitigation and disaster recovery planning, including train-the-trainer activities.

- Increasing understanding of financial tools that can be used to implement hazard mitigation measures and develop a financing strategy (e.g., tax increment financing, coordinated infrastructure financing or historic tax credits).
- Helping communities incorporate nature-based approaches into hazard mitigation actions.
- Providing communities with information on viable approaches to prevent future losses to homes, businesses and infrastructure and to preserve historic and cultural resources.
- Evaluating adoption of and/or implementation of ordinances and development codes, zoning codes, form-based codes, subdivision codes, etc. that reduce risk and/or increase resilience to future hazards by:
 - Promoting flexible mitigation approaches to protect historic and cultural resources.
 - Evaluating current and future built environment to assess risks and vulnerabilities.

Information dissemination activities done in conjunction with planning-related activities, including public awareness and education, are generally eligible as a percentage of a subapplication.

A.2.3. Ineligible Activities

The following activities are not eligible as mitigation planning or planning-related activities:

- Hazard identification or mapping and related equipment that directly relate to implementing a hazard mitigation project.
- Geographic information system software, hardware and data acquisition whose primary aim is to implement a hazard mitigation project.

Any activities directly related to implementing a hazard mitigation project must be included in the subapplication budget for that project. Costs related to hazard identification, hazard mapping and the geographic information system software may be eligible under the HMGP 5 Percent Initiative.

Project scoping or subapplication development activities such as Benefit-Cost Analysis, engineering feasibility studies, subapplication development, construction design, or environmental and historic preservation (EHP) data collection are not eligible as planning-related activities. These activities may be eligible as project scoping or advance assistance activities under HMGP, HMGP Post Fire, BRIC and FMA. A general list of ineligible activities is included in [Part 4](#).

A.2.4. Funding Restrictions

FEMA supports a variety of planning and planning-related activities through HMGP and HMGP Post Fire. In addition to hazard mitigation plans, this assistance is available for planning-related activities and provides flexibility to state, tribal and local governments to reduce risk and integrate hazard mitigation principles into planning for resilience.

The state responsibilities for planning activities are outlined in [44 CFR § 201.3\(c\)](#). The provision specifies that up to 7% of a recipient’s HMGP or HMGP Post Fire assistance can be used for mitigation planning under [44 CFR § 206.434](#). Within this percentage, there are no limits on the dollar value of the planning-related activity or the number of planning activities that can be submitted.

BRIC and FMA may have funding restrictions for planning and planning-related activities. Refer to the award year BRIC or FMA NOFO for more information.

A.3. Application and Submission Information

All subapplications submitted to FEMA must meet the eligibility criteria in [Part 4](#). All subapplications must have a scoping narrative in accordance with [Part 6](#). Specific criteria for mitigation planning subapplications are highlighted below.

FEMA may request additional information after the subapplication has been submitted to ensure all necessary information is received. However, all information required by the regulations and the guidance must be received before an assistance decision and award or final approval can be made.

A.3.1. Scope and Schedule for New Plan Creation or Plan Updates

The subapplication must:

- Include a statement that the deliverable will be an approved hazard mitigation plan that complies with the regulatory requirements at [44 CFR Part 201](#) and [44 CFR Part 206](#).
- Use applicable state, local or tribal mitigation planning guidance to determine the specific requirements for new plans and plan updates regarding the planning process; hazard identification and risk assessment; hazard mitigation strategy; plan review, evaluation and implementation; and plan adoption.
- Include the scope of work and schedule that explains how a subapplicant will organize and execute the planning process, including how to engage with stakeholders and the public, if applicable. Generally, the scope of work also explains the planning team’s role, identifies stakeholders, explains public outreach (as applicable for local and tribal governments) and specifies whether the subapplicant expects to use contract support.

The following elements must be included in the scope of work for planning grants for subapplications seeking to create or update a new or existing plan:

- **Description of previous planning efforts:** Describes past mitigation plans and hazard mitigation efforts to identify priorities for plan updates. The FEMA plan review tool from the previous plan should be included as an attachment.

- **Description of planning area:** Describes the planning area, including any non-contiguous land holdings or assets and demographics. The description must include the number and names of participating governments, private nonprofits, or other partners. Planning areas may include governments, such as states, territories, tribal lands, cities, townships, counties or other districts. Planning areas may also be defined by watersheds or other natural features. Planning areas can crossover or encompass other jurisdictions, such as a fire protection district or a utility district.
- **List of jurisdictions participating in plan:** Lists each community that will participate in the plan and seek plan approval including special districts.
- **Public and stakeholder engagement plan:** Provides an outreach and engagement plan that describes the opportunity for the public and stakeholders to be involved in the planning process. The plan must include required meetings and public comment periods. The outreach and engagement plan must account for the time needed to incorporate public and stakeholder feedback into the plan. If the subapplicant plans to conduct a public survey, the scope of work should describe the intent and value of the survey, how the results will be used and who the target audience is.
- **Planning process:** Provides a stakeholder and public engagement strategy that describes the planning process to engage stakeholders and the public. The description must explain the planning team’s proposed role, provide the anticipated number of planning team meetings, and identify how stakeholder engagement and public outreach included representatives of the community.
- **Available data and risk assessment process:** Describes the planning team’s process to research, collect, analyze and summarize hazard and risk data. The plan must include a description of the natural hazards that can affect the planning area. Man-made hazards may be included in the plan but are not required and will not be reviewed to meet plan requirements.
 - FEMA encourages states, tribes and territories to consider how they can create efficiencies, such as sharing relevant and scalable data and analysis with local governments to reduce costs, avoid the duplication of effort, and allow for the planning efforts to focus on hazard mitigation strategy development. Subapplicants should generally coordinate with the state and FEMA to make use of existing data and risk assessments, including recent tools and methodologies available to assess impacts of changes in natural hazard risk, when developing or updating a mitigation plan.
 - Applicants and subapplicants should:
 - Describe the number of natural hazards that will be profiled.
 - If the subapplicant is completing a plan update, include a description of the data gaps and deficiencies the subapplicant is looking to fill in the updated risk assessment. If the subapplicant plans to generate new data, the subapplicant should explain the use of the new data and the value the new data will add to the plan. Explain how the new data will

build a better risk assessment and hazard mitigation strategy and describe where the source data will come from (including federal and non-federal sources) and how it will be processed.

- Ensure the scope of work narrative includes a description of any known data sources, such as FEMA Risk MAP flood maps, to be used in the risk assessment. If the subapplicant relies on state plan data, the subapplicant should explain why the subapplicant does so. Similarly, if the subapplicant intends to develop new risk data, the subapplicant must describe the proposed process and sources.
 - Include an explanation of any geographic information system mapping and analysis needs for the plan.
 - If the subrecipient intends to use the FEMA tools such as CLIMRR, the Hazus model or other geographic information system software to support assessing vulnerability, explain the proposed level of analysis and describe how this enhanced analysis will add value to the plan in the planning narrative.
- For local and tribal governments, if a community is participating or has participated in the Risk MAP process recently, the subapplicant must describe how the community plans to incorporate or upgrade the results of Risk MAP into the mitigation planning process. This might not apply to state plan updates.
- **Development of capabilities assessment:** Describes the process to develop strategies to address issues, challenges and obstacles jurisdictions face within given capabilities to deliver an effective hazard mitigation program, including existing plans, programs, ordinances and policies that support long-term risk reduction efforts.
 - **Development of hazard mitigation strategy:** Describes the process to develop a mitigation strategy for each participating jurisdiction based on the risk assessment completed for the plan. For state mitigation plans, this narrative can include Coordination of Local Mitigation Planning, Severe Repetitive Loss Strategy and the Comprehensive State Hazard Mitigation Planning program. The process must include:³²⁵
 - An explanation of how the subapplicant intends to gather information on the status of previous hazard mitigation actions.
 - A status report on all the previously prioritized hazard mitigation actions if the plan is being updated. Further, the plan must include an evaluation and prioritization of new hazard mitigation actions identified since the previous plan was approved.

³²⁵ [44 CFR § 201.6\(d\)\(3\)](#)

- **Plan implementation, maintenance and evaluation:** Describes how the plan will be used to carry out actionable projects identified in the plan and the process to develop an implementation/maintenance and evaluation plan/strategy.
- **Plan adoption:** Describes the plan drafting process, including state and FEMA reviews, adoption by participating jurisdictions, and final approval by FEMA or the state, tribe or territory, as applicable, under the PAS delegation of local plan approval authority.
- **Schedule:** Outlines the time frame, which must match all tasks noted in the scope of work. If a proposed activity is a new or updated mitigation plan, the schedule must include tasks for draft review. It must also allow sufficient time for the state, tribe or territory and FEMA reviews; preparation of required revisions, if needed; formal adoption by the jurisdiction(s); and FEMA approval within the period of performance.
- **Deliverables, tasks and schedule:** Describes the deliverables for a new or updated approved mitigation plan consistent with mitigation planning regulations for state,³²⁶ local³²⁷ or tribal³²⁸ governments as well as the applicable mitigation planning guidance. Refer to the FEMA “[Hazard Mitigation Planning](#)” webpage for additional information on state, local and tribal mitigation planning.

If communities participate in the NFIP and/or CRS, the scope of work should account for the level of effort needed to capture information related to NFIP and CRS compliance. CRS communities may receive additional points for having an adopted hazard mitigation plan; points can be maximized by undertaking the additional tasks prescribed for each mitigation planning phase. More details can be found in the [National Flood Insurance Program Community Rating System Coordinator’s Manual](#) (2017), the [2021 Addendum](#) to the CRS Manual, the Mitigation Planning and the Community Rating System bulletin, and in the [Local Mitigation Planning Handbook](#) (June 2025) (specifically, refer to Annex B, Local Hazard Mitigation Plan and Community Rating System Crosswalk Starter Kit).

A.3.2. Scope and Schedule for Planning-Related Activities

Planning-related activities are not required to result in an approved mitigation plan. Instead, planning-related activities are intended to advance hazard mitigation and resilience outcomes.

In general, a subapplication must describe the deliverable for the proposed activities in the planning narrative. The planning narrative explains how a subapplicant will organize and execute the planning-related activity. Generally, the narrative also explains the planning team’s role, identifies stakeholders, explains public outreach, and specifies whether the subapplicant expects to use contract support.

³²⁶ [44 CFR § 201.4](#) or [44 CFR § 201.5](#)

³²⁷ [44 CFR § 201.6](#)

³²⁸ [44 CFR § 201.7](#) or [44 CFR § 201.5](#)

A planning-related activity scope of work should include the following items:

- **Tasks:** The subapplicant must describe the tasks needed to accomplish the proposed activity as well as any procurement that would be required.
- **Alignment with current mitigation plans:** The scope of work must describe how the proposed activity aligns with the current mitigation plan or how mitigation plan information will be incorporated into other planning-related activities.
- **Public and stakeholder engagement:** The scope of work must identify the outreach and engagement plan (if applicable to the activity). The narrative should account for the time and effort it may take to incorporate public and stakeholder feedback.
- **Goals:** The scope of work must include the goals of the planning-related activity and identify specific deliverables that will be completed by the activity.
- **Implementation strategy:** The scope of work must outline the steps the subapplicant will follow to implement planning-related activities and to complete the proposed deliverables. This information must include a project schedule.
- **Deliverables, tasks and schedule:** The narrative must describe the deliverables for any mitigation planning-related activities eligible under HMGP, HMGP Post Fire and BRIC that enhance an existing mitigation plan consistent with mitigation planning regulations for state ([44 CFR § 201.4](#) or [44 CFR § 201.5](#)), tribal ([44 CFR § 201.7](#) or [44 CFR § 201.5](#)) or local governments ([44 CFR § 201.6](#)) as well as the applicable mitigation planning guidance. Refer to the FEMA “[Hazard Mitigation Planning](#)” webpage for additional information on state, tribal and local mitigation planning.

A.3.3. Costs and Budget

Allowable costs for hazard mitigation planning and planning-related activities include:

- **Pre-award costs to prepare a subapplication:** Pre-award costs to prepare a subapplication must be included as separate line items and supported with a budget narrative.
- **Training:** Applicable training costs for the planning team to travel to and attend applicable training.
- **In-kind staff time:** Subapplications should identify all in-kind staff time, including costs incurred to support plan coordination and outreach. In-kind costs can be applied to meet the non-federal match, which is up to 25% of the total cost of the plan. Timesheets will be required at closeout to document expenses.

Assistance may be subject to statutory limits (assistance restrictions) on planning and management costs as described in previous sections. Under planning and planning-related subawards, the following costs are not eligible:

- Data that is publicly available for free.
- Engineering or design costs.
- Other costs for implementing plans.
- Costs that may be part of another technical assistance, project scoping, advance assistance, or codes and standards subaward.

A.3.3.1. Budget

Budgets must be supported with documentation. Budgets must include detailed estimates of various cost item categories such as labor, materials, equipment and subcontractor costs. Lump-sum estimates are not acceptable. Subapplicants should provide a record of all documents used to develop the budget and a budget narrative that describes how each cost item in the budget was derived.

FEMA requires an itemized budget that is reasonable and cost beneficial and corresponds to the schedule. The itemized budget should be added as an attachment to the subapplication.

Budgets should include:

- An accounting for the entire period of performance to produce the plan or planning-related activity and include enough time for state and FEMA review, potential revisions and plan adoption, including grants management activities required for closing out the subaward.
- An accounting for any special studies or additional assistance needed to support an enhanced analysis and data that will be included as part of the plan or planning-related activity.
- Data research and collection, including eligible mapping activities or risk assessment. If Hazus is used for flood, earthquake or hurricane risk assessments, the subapplicant should include costs for user defined/provided hazard and inventory data.
- A hazard mitigation strategy development and prioritization.
- Professional development training, tuition and travel costs, if applicable.
- Costs related to plan drafting, state and FEMA review, revisions, and final production and distribution.
- Public outreach and stakeholder coordination efforts.

- Management costs, which are indirect costs and administrative expenses anticipated during plan development. The amounts, allowable uses and procedures to request management costs assistance vary by HMA program. Refer to [Part 10](#) for more information.
- Supportive documentation, such as contractor estimates, that should demonstrate a clear understanding of the scope of work, limitations and final outcomes of the plan. If the estimate is based on carefully thought-out assumptions, it will have factored in many of the changes that come after the grant is awarded.

A.4. Subaward Implementation

Post-award monitoring helps ensure that subapplicants/subrecipients are achieving the objectives of the federal award consistent with the performance goals and milestones described in the subaward.

To assist the recipient in monitoring plan creation, updates or planning-related activities, the following milestone information or events (if appropriate) should be included in Quarterly Progress Reports:

- If the subrecipient is acquiring contract support, the subrecipient should report when the request for proposal is completed, when the contract is out for bid, when the bid period closes, when proposals are reviewed, when the contractor is selected and the date of the kickoff meeting.
- Public meetings and/or public comment periods that have been planned or completed.
- Planning team meetings that have been planned or completed.
- For state, local and tribal plans, when the data collection and risk assessment was started and completed, and when the hazard mitigation strategy and action plan was started and completed.
- Subrecipient's intent to submit plan for review at least 90 calendar days prior to submission.
- When participating communities have adopted the plan, if plan adoption is delayed, or if the participating community notifies the subrecipient that they do not intend to adopt the plan.
- Any other milestones that have been identified in the subapplication, agreed to or that are required by the recipient.

A.4.1. Budget and Scope of Work Changes

Recipients are required to report deviations from budget, project scope or objectives in accordance with [Part 8](#). Recipients must request prior written approvals from FEMA for certain budget and program plan revisions.³²⁹

³²⁹ [2 CFR § 200.308](#)

For subawards to develop new or updated plans, FEMA will require prior approval when a participating community identified in the scope of work chooses not to adopt a new or updated plan.

A.5. Closeout

Recipients and subrecipients must close out activities in a timely manner consistent with [Part 9](#).

The recipient must provide a statement showing all the work in the approved scope of work has been completed. For planning-related activities under HMGP, 100% work completion is also when all work within the approved scope of work is complete.

For the creation and update of mitigation plans, the plan must be adopted by all participating jurisdictions and all work in the approved scope of work (such as data analysis) must be completed. The recipient must provide a list of jurisdictions that are part of the multi-jurisdictional plan and indicate if the jurisdictions have or have not adopted the approved plan.

For planning-related activities, the recipient must provide a statement showing that all the work in the approved scope of work and the deliverable(s) were completed.

This information can be included in the body of the closeout letter.

HMA Grant Closeout Field Guides and Closeout Checklists can be found on FEMA’s “[HMA Monitoring and Closeout Guidance](#)” webpage.

A.6. Hazard Mitigation Planning Resources



Hazard Mitigation Planning Resources

- *Planning Grant Application Overview:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-planning-grants-application-overview.pdf
- *Planning Grant Application Instructions:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-planning-grants-application-instructions.pdf
- *Planning Grant Example Document:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-application-planning-grant-example.pdf
- Hazard Mitigation Planning: <https://www.fema.gov/emergency-managers/risk-management/hazard-mitigation-planning>
- FEMA “Create a Hazard Mitigation Plan” webpage (with links to state, local and tribal plan guides): <https://www.fema.gov/emergency-managers/risk-management/hazard-mitigation-planning/create-hazard-plan>

- *State Mitigation Planning Policy Guide:*
https://www.fema.gov/sites/default/files/documents/fema_hmd_state-mitigation-planning-policy-guide_05192025.pdf
- *Local Mitigation Planning Policy Guide:*
https://www.fema.gov/sites/default/files/documents/fema_local-mitigation-planning-policy-guide_042022.pdf
- *State Mitigation Planning Key Topics Bulletins:* <https://www.fema.gov/emergency-managers/risk-management/hazard-mitigation-planning/create-hazard-plan>
- *Local Mitigation Planning Handbook:*
https://www.fema.gov/sites/default/files/documents/fema_hmd_2025-local-mitigation-planning-handbook_06122025.pdf Guides to Expanding Mitigation:
<https://www.fema.gov/about/organization/region-10/guides-expanding-mitigation>
- Mitigation Planning Regulations and Guidance: <https://www.fema.gov/emergency-managers/risk-management/hazard-mitigation-planning/regulations-guidance>
- Mitigation Planning Success Stories:
<https://fema.maps.arcgis.com/apps/Shortlist/index.html?appid=d50f03a118974dc8b90026d29aa70721>
- Mitigation Planning Training: <https://www.fema.gov/emergency-managers/risk-management/hazard-mitigation-planning/create-hazard-plan/mitigation-planning-training>
- Implement, Integrate and Maintain Mitigation Planning Activities:
<https://www.fema.gov/emergency-managers/risk-management/hazard-mitigation-planning/implementing>
- American Planning Association, *Drought Mitigation Planning in a Multi-Hazards Context:*
<https://www.planning.org/nationalcenters/hazards/droughtmitigation/>
- University of Nebraska National Drought Mitigation Center State Drought Plans:
<https://drought.unl.edu/planning/DroughtPlans/StatePlans.aspx>
- EPA *Drought Response and Recovery: A Basic Guide for Water Utilities:*
https://www.epa.gov/sites/default/files/2017-10/documents/drought_guide_final_508compliant_october2017.pdf

B. Advance Assistance

Advance assistance activities are designed to bridge the gap in the level of detail between the actions contained in the current approved hazard mitigation plan and project subapplications. Advance assistance activities are also designed to obtain data to complete HMGP and HMGP Post Fire subapplications in a timely manner, resulting in the development of an application-ready hazard mitigation project.

Advance assistance is authorized under Section 404(e) of the [Robert T. Stafford Disaster Relief and Emergency Assistance Act](#) (Stafford Act).³³⁰ Under this provision, FEMA is authorized to advance up to 25% of the HMGP ceiling or HMGP Post Fire available assistance amount to applicants or subapplicants to accelerate the implementation of HMGP or HMGP Post Fire. Advance assistance is not automatic and is included in the HMGP ceiling or HMGP Post Fire available assistance amount.

Advance Assistance, provided under a major disaster declaration or FMAG declaration, is used for developing hazard mitigation measures that may be funded under Section 404(a).

All deliverables, as described in the Advance Assistance scope of work, must be completed within the approved work schedule. Resulting project subapplications may be submitted within an open application period.

B.1. Eligibility

Advance assistance must only be used to support the development of HMGP and HMGP Post Fire projects as described in the advance assistance scope of work. Both applicants and subapplicants may apply for advance assistance activities at any time during an open application period. Management costs are eligible under advance assistance subapplications.

B.1.1. Eligibility Criteria

Hazard mitigation projects developed using advance assistance must be both feasible and effective at mitigating the risks of the hazard(s) for which the project was designed. A project's feasibility is demonstrated through conformance with accepted engineering practices, established codes, standards, modeling techniques or best practices.

Advance assistance activities are not required to demonstrate cost effectiveness. However, projects that are developed using advance assistance, which are to be submitted for future HMA consideration, must be technically feasible, cost-effective and consistent with EHP laws, regulations and executive orders. EHP requirements should be considered at the earliest possible stage of project development to allow for consideration of measures that reduce impacts to the human environment. Effective scoping to create a well-defined proposed project and identify potential EHP issues at an early stage will help facilitate the EHP review process for projects developed using advance assistance.

When projects are sited within the Special Flood Hazard Area (SFHA), assistance received for advance assistance activities can only be used in a jurisdiction that is participating in the NFIP.

³³⁰ As amended by Section 1140 of the Sandy Recovery Improvement Act of 2013, Public Law 113-2 (Jan. 29, 2013); [42 U.S.C. § 5170c\(e\)](#)

B.1.2. Eligible Activities

Advance assistance can be used for the following eligible activities:

- Obtain staff or resources to develop a cost-share strategy and identify potential match funding.
- Evaluate facilities or areas to determine appropriate hazard mitigation actions.
- Incorporate environmental planning and historic preservation (EHP) considerations early into hazard mitigation activities.
- Collect data for benefit-cost analyses, EHP compliance and other program requirements.
- Coordinate, scope and develop mitigation activities (including state coordination of local projects) to cohesively address resilience goals.
- Conduct engineering design and feasibility studies for larger or complex projects or critical facility retrofits. Physical work (e.g., soil tests) associated with these studies is generally eligible.
- Conduct hydrologic and hydraulic studies for unmapped flood zones or Approximate Zone A areas where communities propose to submit hazard mitigation projects.
- Conducting meetings, outreach and coordination with potential subapplicants and community residents to identify potential future mitigation projects, such as property acquisition and demolition or relocation projects.
- Perform professional cost estimation services to aid consistency in project budgeting across subapplications.
- Rectify data consistency needs for other project application categories, such as EHP compliance, cost-sharing mechanisms and work schedules.
- Complete necessary documents for deed restricting properties such as acknowledgement of voluntary participation or Model Acknowledgment of Conditions for Mitigation of Property in a Special Flood Hazard Area with FEMA Grant Funds for property acquisition projects.
- Coordinating with property owners of substantially damaged structures to review project alternatives and provide engineering and design support to bring structures into compliance with appropriate building code standards.

B.1.3. Ineligible Activities

Ineligible activities include groundbreaking, construction or demolition. A general list of ineligible activities is included in [Part 4](#).

B.2. Application and Submission Information

Applicants and subapplicants do not receive advance assistance automatically. To receive assistance for advance assistance activities, states, federally recognized tribes and territories must apply for advance assistance in the electronic application system. All subapplications submitted to FEMA must meet the eligibility criteria in [Part 4](#). All subapplications must have a scoping narrative in accordance with [Part 6](#).

The application must identify the proposed use of the funds, including costs in sufficient detail for each proposed activity and milestones for submitting completed HMGP or HMGP Post Fire application(s) to FEMA. Advance assistance is subject to the HMGP and HMGP Post Fire cost-share requirements and applicable incremental obligation; FEMA will not obligate funds until the recipient/subrecipient has an immediate need for the funds.

An advance assistance scope of work should include the following items:

- A description of the goal(s) of the advance assistance activity and how the project will mitigate the identified risk(s). Include any damage history in the project area, if available.
- A detailed description of all project activities that clearly explains how they relate to the project goals, including key milestones, activities, deliverables and schedule.
- A description of how the proposed activity aligns with the current mitigation plan.
- The outreach and engagement plan (if applicable) and an account for the time and effort it may take to incorporate public and stakeholder feedback.
- A title for each proposed activity and the estimated cost and the deliverable associated with each. Advance Assistance funding should not be used for projects that have already been fully scoped and ready to be submitted as HMGP projects.

FEMA may request additional information after the subapplication has been submitted to ensure all necessary information is received. However, all information required by the regulations and the guidance must be received before an assistance decision, award or final approval can be made.

B.2.1. Activity and Schedule

An advance assistance subapplication must identify the proposed use of the assistance, including costs, with enough detail for both the proposed activity and milestones. The scope of work narrative must describe the proposed activities and deliverables. Each of the activities listed in the scope of work should be accounted for in the work schedule table.

The work schedule must reflect actions that can be executed within 24 months from the time FEMA obligates funds. Indicate which quarter the proposed activities will occur in, including the associated milestone and deliverable for each. The proposed project can take less than 24 months, but not longer than 36 months. Each “quarter” is a 3-month period that begins once the project is approved.

The “activity” should match the “activity” items in the “scope of work” table. The schedule should include a list of milestones for each budget year. The project schedule should note when deliverables are completed.

B.2.2. Costs and Budget

The advance assistance budget must include estimated costs for each requested activity. It must also include schedules for incremental obligations, based on the associated activities and time frame for implementing each action. All subapplications must include a line-item breakdown of all anticipated costs while referencing the cost code categories on Standard Form (SF) 424: *Application for Federal Assistance*. Pre-award costs must be reasonable and identified in the budget to be considered eligible incurred costs (refer to [Part 3](#) for more information).

A budget narrative should provide explanations, justifications and line-item details of the project costs, including an explanation for how costs were derived, including any details not in the line items.

Management costs are eligible under advance assistance subapplications. The recipient must submit enough financial detail to demonstrate that no costs claimed under advance assistance are duplicated in other subapplications including those for management costs.

B.3. Subaward Implementation

Applicants and subapplicants must submit documentation to FEMA to support that they accomplished all activities listed in their advance assistance subapplication. Post-award monitoring helps ensure that subapplicants/subrecipients are achieving the objectives of the federal award consistent with the performance goals and milestones described in the subaward.

To assist the recipient in monitoring advance assistance activities, the following milestone information or events (if appropriate) should be included in Quarterly Progress Reports:

- If the subrecipient is acquiring contract support, the subrecipient should report when the request for proposal is completed, when the contract is out for bid, when the bid period closes, when proposals are reviewed, when the contractor is selected and the date of the kickoff meeting.
- Public meetings and or public comment periods that have been planned or completed.
- Any other milestones that have been identified in the subapplication or agreed to or are required by the recipient.

Requirements and deliverables associated with advance assistance and resulting HMGP or HMGP Post Fire applications may include:

- Documentation of advance assistance accomplishments: Applicants and subapplicants must submit documentation to FEMA to support that they accomplished all activities listed in their Advance Assistance application.

- **Submission of projects up to the HMGP ceiling:** FEMA expects States that receive Advance Assistance to submit complete project applications up to or over the available HMGP ceiling by the final HMGP project application deadline.
- **Accounting for use of advance assistance funds:** For accounting and audit purposes, the State must submit sufficient financial detail to demonstrate that no costs claimed under Advance Assistance are duplicated in subsequent HMGP project applications or in state management costs budgets.
- **Documentation of EHP considerations:** The Applicant and subapplicant must document that impacts to environmental and historic resources were considered early in the planning and project scoping processes. This requirement is in addition to ensuring EHP compliance.

B.3.1. Budget and Scope of Work Changes

Recipients are required to report deviations from budget, project scope or objectives in accordance with [Part 8](#). Recipients must request prior written approvals from FEMA for certain budget and program plan revisions.³³¹

B.4. Closeout

Recipients and subrecipients must closeout activities in a timely manner consistent with [Part 9](#). The recipient must provide a statement showing all the work in the approved scope of work and deliverables have been completed. This information can be included in the body of the closeout letter. HMA Grant Closeout Field Guides and Closeout Checklists can be found on FEMA's "[HMA Monitoring and Closeout Guidance](#)" webpage.

B.5. Advance Assistance Resources



Advance Assistance Resources

- *Advance Assistance Application Overview:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-advance-assistance-application-overview.pdf
- *Advance Assistance Application Instructions:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-advance-assistance-application-instructions.pdf
- *Advance Assistance Application Example Document:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-advance-assistance-application-example.pdf

³³¹ [2 CFR § 200.308](#)

C. Project Scoping

Project scoping activities are designed to develop hazard mitigation strategies and obtain data to prioritize, select, and develop, in a timely manner, complete applications that result in either an improvement in the capability to identify appropriate hazard mitigation projects or in the development of an application-ready hazard mitigation project.

Project scoping is authorized under BRIC and FMA. For more information on BRIC and FMA, including governing policies, visit the FEMA “[Building Resilient Infrastructure and Communities](#)” and “[Flood Mitigation Assistance Grant](#)” webpages.

C.1. Eligibility

For BRIC and FMA, project scoping is available in accordance with the principles outlined in the respective NOFOs for the grant cycle under which a subapplicant applies. If there are any requirements in this section of the HMA Guide that conflict with the NOFO, the NOFO takes precedence.

Both applicants and subapplicants may apply for project scoping activities at any time during an open application period. Management costs are eligible under project scoping subapplications.

C.1.1. Eligibility Criteria

Hazard mitigation projects that are developed using project scoping must be both feasible and effective at mitigating the risks of the hazard(s) for which the project was designed. A project’s feasibility is demonstrated through conformance with accepted engineering practices, established codes, standards, modeling techniques or best practices.

Project scoping activities are not required to demonstrate cost effectiveness. However, projects that are developed using project scoping, which are to be submitted for future HMA consideration, must be technically feasible, cost-effective and consistent with EHP laws, regulations and executive orders. EHP requirements should be considered at the earliest possible stage of project development to allow for consideration of measures that reduce impacts to the human environment. Effective scoping to create a well-defined proposed project and identify potential EHP issues at an early stage will help facilitate the EHP review process for projects developed using project scoping.

When projects are sited within the Special Flood Hazard Area (SFHA), assistance received for project scoping activities can only be used in a jurisdiction that is participating in the NFIP.

C.1.2. Eligible Activities

The following activities are eligible under project scoping:

- Scoping and developing hazard mitigation projects, including engineering design and feasibility studies. Physical work (e.g., soil tests) associated with these studies is generally eligible.

- Conducting meetings, outreach and coordination with potential subapplicants and community residents to identify potential future hazard mitigation projects.
- Evaluating facilities or areas to determine appropriate hazard mitigation actions.
- Incorporating environmental planning and historic preservation considerations into project planning activities.
- Collecting data for Benefit-Cost Analyses, environmental compliance and other program requirements.
- Conducting hydrologic and hydraulic studies for unmapped flood zones or other areas where communities propose to submit hazard mitigation projects.
- Coordinating, scoping and developing regional or multi-community hazard mitigation projects that require coordination to cohesively address resilience goals.
- Using third-party cost estimation services for project budgeting across subapplications.
- Contracting services to address data consistency needs for other project application categories, such as EHP, cost-sharing mechanisms and work schedules.
- Coordinating with property owners of substantially damaged structures to review project alternatives and provide engineering and design support to bring structures into compliance with appropriate building code standards.

C.1.3. Ineligible Activities

Ineligible activities include any physical work, such as groundbreaking, construction or demolition activities. A general list of ineligible activities is included in [Part 4](#).

C.2. Application and Submission Information

Applicants and subapplicants do not receive project scoping automatically. To receive assistance for project scoping activities, states, federally recognized tribes and territories must apply for project scoping in the electronic application system.

All subapplications submitted to FEMA must meet the eligibility criteria in [Part 4](#). All subapplications must have a scoping narrative in accordance with [Part 6](#).

A project scoping scope of work should include the following items:

- A description of the tasks needed to accomplish the proposed activity as well as any required procurement.
- A description of how the proposed activity aligns with the current mitigation plan.

- The outreach and engagement plan (if applicable) and an account for the time and effort it may take to incorporate public and stakeholder feedback.
- The goals of the project scoping activity and specific deliverables.
- The steps the subapplicant will follow to complete the project scoping activity and proposed deliverables. The scope of work should identify a deliverable that includes required information to determine eligibility under HMA (e.g., engineering, cost-effectiveness and EHP data, cost estimate, project schedule, design plan or specifications).
- A description of the deliverables, tasks and schedule.

FEMA may request additional information after the subapplication has been submitted to ensure all necessary information is received. However, all information required by the regulations and the guidance must be received before an assistance decision, award or final approval can be made.

C.2.1. Activity and Schedule

When submitting a subapplication to FEMA for project scoping, a subapplication must identify the proposed use of the assistance, including costs, and enough detail for both the proposed activity and milestones. The scope of work narrative must describe the proposed activities and deliverables.

The schedule should include a list of milestones for each budget year. All deliverables must also be identified in the scope of work. The project schedule should note when deliverables are completed.

C.2.2. Costs and Budget

Pre-award costs must be reasonable and identified in the budget to be considered eligible incurred costs. Refer to [Part 3](#) for more information. Management costs are eligible under project scoping subapplications. The recipient must submit enough financial detail to demonstrate that no costs claimed under project scoping are duplicated in other subapplications including those for management costs.

All subapplications must include a line-item breakdown of all anticipated costs while referencing the cost code categories on Standard Form (SF) 424: *Application for Federal Assistance*.

C.3. Subaward Implementation

Applicants and subapplicants must submit documentation to FEMA to support that they accomplished all activities listed in their project scoping subapplication. Post-award monitoring helps ensure that subapplicants/subrecipients are achieving the objectives of the federal award consistent with the performance goals and milestones described in the subaward.

To assist the recipient in monitoring project scoping activities, the following milestone information or events (if appropriate) should be included in Quarterly Progress Reports:

- If the subrecipient is acquiring contract support, the subrecipient should report when the request for proposal is completed, when the contract is out for bid, when the bid period closes, when proposals are reviewed, when the contractor is selected and the date of the kickoff meeting.
- Public meetings and or public comment periods that have been planned or completed.
- Any other milestones that have been identified in the subapplication or agreed to or are required by the recipient.

C.3.1. Budget and Scope of Work Changes

Recipients are required to report deviations from budget, project scope or objectives in accordance with [Part 8](#). Recipients must request prior written approvals from FEMA for certain budget and program plan revisions.³³²

C.4. Closeout

Recipients and subrecipients must closeout activities in a timely manner consistent with [Part 9](#). The recipient must provide a statement showing all the work in the approved scope of work and deliverables have been completed. This information can be included in the body of the closeout letter. HMA Grant Closeout Field Guides and Closeout Checklists can be found on FEMA's "[HMA Monitoring and Closeout Guidance](#)" webpage.

C.5. Project Scoping Resources



Project Scoping Resources

- *Building Resilient Infrastructure and Communities Project Scoping Activities:*
https://www.fema.gov/sites/default/files/documents/fema_hma_bric-project-scoping-psm_fy23.pdf

D. Technical Assistance (Financial and Non-Financial)

As described in [Part 10](#), FEMA provides two types of technical assistance through HMA:

1. **FMA Technical Assistance Grant (Financial):** FMA Technical Assistance is a financial award made available to applicants to maintain a viable FMA program. For more information about the FMA Technical Assistance Grant, refer to the "[Flood Mitigation Assistance Grant](#)" webpage.

³³² [2 CFR § 200.308](#)

2. **BRIC Direct Technical Assistance (Non-Financial):** BRIC Direct Technical Assistance is non-financial support. For more information about BRIC Direct Technical Assistance, refer to the [“Building Resilient Infrastructure and Communities”](#) webpage.

D.1. Eligibility

Technical assistance activities under FMA are those activities applicants need to complete to maintain a viable FMA program. Technical assistance activities under BRIC support communities that may not have the resources to begin planning and project solution design on their own. Refer to the relevant fiscal year NOFOs for more information.³³³

A general list of ineligible activities is included in [Part 4](#).

D.2. Application and Submission Information

All subapplications submitted to FEMA must meet the eligibility criteria in [Part 4](#). All subapplications must have a scoping narrative in accordance with [Part 6](#).

A technical assistance scope of work should include the following items:

- A description of the tasks needed to accomplish the proposed activity as well as any procurement that would be required.
- A description of how the proposed activity aligns with the current mitigation plan.
- The outreach and engagement plan (if applicable) and an account for the time and effort it may take to incorporate public and stakeholder feedback.
- The goals of the project scoping or advance assistance activity and specific deliverables.
- The steps the subapplicant will follow to complete the project scoping or advance assistance activity and proposed deliverables. The scope of work should identify a deliverable that includes required information to determine eligibility under HMA (e.g., engineering, cost-effectiveness and EHP data, cost estimate, project schedule, design plan or specifications).
- A description of the deliverables, tasks and schedule.

FEMA may request additional information after the subapplication has been submitted to ensure all necessary information is received. However, all information required by the regulations and the HMA Guide must be received before an assistance decision and award or final approval can be made.

³³³ According to Title [42 U.S.C. 4104c\(c\)\(3\)\(J\)](#), to be eligible to receive this funding, the applicant must have received an FMA award of at least \$1 million federal cost share funding in the prior fiscal year.

D.2.1. Activity and Schedule

When submitting a subapplication to FEMA for technical assistance, a subapplication must identify the proposed use of the assistance, including costs and enough detail for both the proposed activity and milestones.

The scope of work narrative must describe the proposed activities and deliverables.

The schedule should include a list of milestones for each budget year. All deliverables must also be identified in the scope of work. The project schedule should note when deliverables are completed.

D.2.2. Costs and Budget

Pre-award costs must be reasonable and identified in the budget to be considered eligible incurred costs. Refer to [Part 3](#) for more information.

The recipient must submit enough financial detail to demonstrate that no costs claimed under technical assistance are duplicated in other subapplications including those for management costs.

All subapplications must include a line-item breakdown of all anticipated costs while referencing the cost code categories on SF-424.

D.3. Subaward Implementation

Applicants and subapplicants must submit documentation to FEMA to support that they accomplished all activities listed in their technical assistance application. Post-award monitoring helps ensure that subapplicants/subrecipients are achieving the objectives of the federal award consistent with the performance goals and milestones described in the subaward.

To assist the recipient in monitoring partnership activities, the following milestone information or events (if appropriate) should be included in Quarterly Progress Reports:

- If the subrecipient is acquiring contract support, the subrecipient should report when the request for proposal is completed, when the contract is out for bid, when the bid period closes, when proposals are reviewed, when the contractor is selected and the date of the kickoff meeting.
- Public meetings and or public comment periods that have been planned or completed.
- Any other milestones that have been identified in the subapplication or agreed to or are required by the recipient.

D.3.1. Budget and Scope of Work Changes

Recipients are required to report deviations from budget, project scope or objectives in accordance with [Part 8](#). Recipients must request prior written approvals from FEMA for certain budget and program plan revisions.³³⁴

In addition, prior approval from FEMA is required when a subrecipient wants to change the scope of work or the objective of the technical assistance activity (e.g., the level of effort, outreach activities, deliverables).

D.4. Closeout

Recipients and subrecipients must closeout activities in a timely manner consistent with [Part 9](#). The recipient must provide a statement showing that all work in the approved scope of work and deliverables have been completed. This information can be included in the body of the closeout letter. HMA Grant Closeout Field Guides and Closeout Checklists can be found on FEMA's "[HMA Monitoring and Closeout Guidance](#)" webpage.

E. Partnerships

Community resilience cannot be achieved without leveraging a broad network of partners that include (but are not limited to) all levels of government, the private sector, private nonprofits, and educational institutions.

These partners are key to driving investments in hazard mitigation projects, building capability through training and technical assistance, planning for increased resilience, promoting hazard mitigation activities and sharing information to promote and sustain a ready FEMA and prepared nation.

E.1. Eligibility

Certain partnership activities may be eligible for assistance under BRIC and FMA. To ensure applicants and subapplicants can build partnerships to support their hazard mitigation efforts, certain partnership activities may be eligible under the BRIC state/territory allocation and tribal set-aside and FMA capability- and capacity-building activities.

For specific eligibility criteria to receive assistance for partnership activities under BRIC, refer to the "[Building Resilient Infrastructure and Communities](#)" webpage and the NOFO for the year funding of the partnership activities was sought.

³³⁴ [2 CFR § 200.308](#)

For specific eligibility criteria for partnership activities under FMA, refer to the “[Flood Mitigation Assistance Grant](#)” webpage and the NOFO for the year funding of the partnership activities was sought.

Generally, to receive assistance for partnership activities, applicants and subapplicants must demonstrate the effectiveness and ultimate benefit of the activities. Applicants demonstrate this by providing a detailed explanation of the proposed partnership activity, expected milestones and planned deliverables. At closeout, applicants and subapplicants must also provide information and materials to detail the outcomes of the approved activities and deliverables stated in the subapplication.

The following is a non-exhaustive list of potential partnership activities eligible under BRIC and FMA that enhance the knowledge, skills and expertise of applicants and subapplicants in developing and managing partnerships to build whole community resilience:

- Conducting a capability gap analysis (or partner network analysis) to determine where partnerships could be helpful or where assistance matching opportunities can be leveraged.
- Providing or attending training on evaluating, pursuing or sustaining partnerships.
- Supporting partner identification or partnership development activities (e.g., hosting a partner fair, pursuing initiatives with higher education institutions, engaging with economic development organizations), such as:
 - Involving private-sector and community lifelines operators, (i.e., health and medical, energy and transportation service providers) in the mitigation planning processes.
 - Developing a partner database or online portal to submit and share partnership case studies.
- Pursuing opportunities for knowledge transfer between partners (e.g., mentoring or shadowing programs), such as:
 - Attending state, local, tribal, territorial, regional or national conferences to support knowledge sharing and partnership development.
 - Hosting a forum to share best practices and lessons learned or conducting hazard mitigation-related tabletop exercises to build relationships.
 - Sustaining existing partnership initiatives or capitalizing on existing networks.
 - Implementing other innovative partnership approaches identified by the applicant or subapplicant to meet stated needs.

These activities may be pursued at the applicant or subapplicant level to support partnership building efforts or may be provided by applicants to subapplicants to enhance the capability of communities to develop and sustain partnerships.

A general list of ineligible activities is included in [Part 4](#).

E.2. Application and Submission Information

All subapplications submitted to FEMA must meet the eligibility criteria in [Part 4](#). All subapplications must have a scoping narrative in accordance with [Part 6](#).

FEMA may request additional information after the subapplication has been submitted to ensure that all necessary information is received. However, all information required by the regulations and the guidance must be received before an assistance decision and award or final approval can be made.

A partnership scope of work should include the following items:

- A description of the tasks needed to accomplish the proposed activity as well as any procurement that would be required.
- A description of how the proposed activity aligns with the current mitigation plan.
- The outreach and engagement plan (if applicable) and an account for the time and effort it may take to incorporate public and stakeholder feedback.
- The goals of the partnership activity and specific deliverables.
- The steps the subapplicant will follow to complete the partnership activity and proposed deliverables. The scope of work should identify a deliverable that includes required information to determine eligibility under HMA (e.g., engineering, cost-effectiveness and EHP data, cost estimate, project schedule, design plan or specifications).
- A description of the deliverables, tasks and schedule.

E.2.1. Activity and Schedule

When submitting a subapplication to FEMA for partnership activities, a subapplication must identify the proposed use of the assistance, including costs and enough detail for both the proposed activity and milestones.

The scope of work narrative must describe the proposed activities and deliverables.

The schedule should include a list of milestones for each budget year. All deliverables must also be identified in the scope of work. The project schedule should note when deliverables are to be completed.

E.2.2. Costs

E.2.2.1. Allowable Costs

Pre-award costs must be reasonable and identified in the budget to be considered eligible incurred costs. Refer to [Part 3](#) for more information.

E.2.2.2. Unallowable Costs

The recipient must submit enough financial detail to demonstrate that no costs claimed under partnerships are duplicated in other subapplications including those for management costs.

E.2.2.3. Budget

All subapplications must include a line-item breakdown of all anticipated costs while referencing the cost code categories on SF-424.

E.3. Subaward Implementation

Applicants and subapplicants must submit documentation to FEMA to support that they accomplished all activities listed in their partnership application.

E.3.1. Program Reporting and Monitoring

Post-award monitoring helps ensure that subapplicants/subrecipients are achieving the objectives of the federal award consistent with the performance goals and milestones described in the subaward.

To assist the recipient in monitoring partnership activities, the following milestone information or events (if appropriate) should be included in Quarterly Progress Reports:

- If the subrecipient is acquiring contract support, the subrecipient should report when the request for proposal is completed, when the contract is out for bid, when the bid period closes, when proposals are reviewed, when the contractor is selected and the date of the kickoff meeting.
- Public meetings and or public comment periods that have been planned or completed.
- Any other milestones that have been identified in the subapplication or agreed to or are required by the recipient.

E.3.2. Budget and Scope of Work Changes

Recipients are required to report deviations from budget, project scope or objectives in accordance with [Part 8](#). Recipients must request prior written approvals from FEMA for certain budget and program plan revisions.³³⁵

³³⁵ [2 CFR § 200.308](#)

In addition, prior approval from FEMA is required when a subrecipient wants to change the scope of work or the objective of the partnership activity (e.g., the level of effort, outreach activities, deliverables).

E.4. Closeout

Recipients and subrecipients must closeout activities in a timely manner consistent with [Part 9](#). The recipient must provide a statement showing that all the work in the approved scope of work and deliverables have been completed. This information can be included in the body of the closeout letter. HMA Grant Closeout Field Guides and Closeout Checklists can be found on FEMA's "[HMA Monitoring and Closeout Guidance](#)" webpage.

E.5. Partnerships Resources



Partnerships Resources

- Drought and Infrastructure - *A Planning Guide, National Drought Resilience Partnership (NDRP)*:
https://www.cisa.gov/sites/default/files/publications/Drought_and_Infrastructure_A_Planning_Guide_508c.pdf

F. Codes and Standards

The development, adoption, evaluation, enhancement and enforcement of building codes and standards is a priority for HMA. Assistance for codes and standards-related activities can take place under three HMA programs: HMGP, HMGP Post Fire and BRIC. Eligible activities under these three programs are generally the same, but assistance restrictions (i.e., the ways in which these activities can be funded) differ.

The activities outlined below relate to both building codes and land use ordinances. Codes and standards activities help implement planning-related activities by focusing on where and how communities build in response to potential hazards. The phrase “codes and standards activities” can relate to codes and standards for buildings and structures as well as equivalent industry-accepted standards for non-building infrastructure projects.

Land use ordinances also can increase resilience by controlling the type and location of future building development. Under HMGP, HMGP Post Fire and BRIC, planning-related activities may allow for the evaluation, adoption and/or implementation of land use and development codes including but not limited to zoning codes, form-based codes, subdivision codes and floodplain management ordinances, that reduce risk and/or increase resilience to future hazards. For more information on eligible activities and funding restrictions, refer to [Part 11.A](#).

To promote code enforcement and improvement activities early in the recovery period, assistance may be available under HMGP and HMGP Post Fire for eligible codes and standards-related activities. This assistance can be applied for after receiving the 30-day and/or six-month HMGP assistance estimates. Refer to [Part 10](#) for more information about available assistance amounts for HMGP and HMGP Post Fire and [Part 3](#) for more information on coordinating with the PA Mitigation program.

F.1. Eligibility

FEMA will fund the development, adoption, evaluation, enhancement and enforcement of building codes and standards through HMA. Assistance for building code-related activities is available through the HMGP, HMGP Post Fire and BRIC programs. Eligible activities under these three programs are generally the same, though program-specific restrictions apply.

F.1.1. Eligible Activities

Under HMGP, HMGP Post Fire and BRIC, the types of codes and standards activities eligible for assistance include but are not limited to:

- Evaluation of the adoption and/or implementation of codes to reduce risk.
- Enhancement of existing adopted codes to incorporate more current requirements or higher standards.
- Development of professional workforce capabilities through technical assistance and training with the use of tools such as available e-permitting software, remote, virtual and drone inspection technologies.
- Evaluation of the adoption and/or implementation of land use and zoning ordinances.

Potential eligible costs for codes and standards activities include the following:

- Labor costs for activities such as staff review of building codes, development of ordinances, drafting of procedures for plan review and inspection, and training and certification in latest codes not covered by normal staffing costs, such as overtime.
- Service contracts (e.g., architect/engineering consulting services to support projects related to building codes).
- Materials (e.g., purchase of code books or manuals and printing of publications supporting building code projects).
- Other costs (e.g., costs related to implementation, raising awareness, disseminating information and providing education related to new or upgraded codes).

Part-time or other staff hired to address a surge in permitting activities because of the disaster are eligible expenses.

Additionally, HMGP and HMGP Post Fire provide assistance for post-disaster code enforcement, which is a recovery activity. Post-disaster code enforcement activities are not eligible under BRIC. Codes and standards activities are not eligible under FMA.

Code-related matters are dealt with differently across state, local, tribal and territorial governments. FEMA recommends that appropriate state, local, tribal or territorial government hazard mitigation officers coordinate with their respective counterparts in building safety and/or code enforcement when pursuing eligible activities under HMA.

[Table 12](#) highlights eligible codes and standards activities.

Table 12: Eligible Codes and Standards Activities

Eligible Activities	HMGP	HMGP Post Fire	BRIC	FMA
Evaluation of the adoption and/or implementation of codes that reduce risk	Yes	Yes	Yes	No
Enhancement of existing adopted codes to incorporate more current requirements or higher standards	Yes	Yes	Yes	No
Development of professional workforce capabilities through technical assistance and training	Yes	Yes	Yes	No
Evaluation of the adoption and/or implementation of land use and zoning ordinances	Yes	Yes	Yes	No
Post-disaster code enforcement	Yes	Yes	No	No

F.1.1.1. Evaluation, Enhancement and Development Activities

Eligible codes and standards activities under HMGP, HMGP Post Fire and BRIC include assistance for the following activities:

- Evaluate which code adoption and enforcement activities are best suited for the jurisdiction. Activities include the publication of code requirements related to land use, zoning, floodplain management, infrastructure, urban-wildland defensible space (e.g., stormwater management regulations) or other areas that help make a community more resilient.
- Enhance (e.g., adopt, develop, improve or modify) current or existing building code requirements to reflect the minimum standard of the latest published code editions, exceed the latest published code editions or develop/modify building code-coordinated requirements.

- Develop professional workforce capabilities through technical assistance and training for the public and/or private sectors.
 - Training activities include:
 - Providing or pursuing training, including individual certification courses (e.g., inspector, plans reviewer, certified floodplain manager).
 - Planning, training and exercises for post-disaster building code enforcement.
 - Developing activities related to improving code enforcement (e.g., evaluate processes; implement an inspection program; improve the Insurance Office Services, Inc.'s Building Code Effectiveness Grading Scale score; and improve the Community Rating System rating).
 - Technical assistance activities include:
 - Employing a mutual-aid agreement among communities to use other local building officials.
 - Entering into a contractual agreement with a state or regional government entity that is knowledgeable of building codes and proper administration of a building department.
 - Entering into a contractual agreement with one of the model building code organizations.
 - Employing building code experts temporarily.
 - Requesting FEMA technical assistance regarding building codes and proper building department administration.

[Table 13](#) highlights eligible evaluation, enhancement and development codes and standards activities. These activities are subject to funding restrictions. Refer to [Part 11.F.1.4](#) and [Part 10](#) for additional information.

Table 13: Eligible Activities to Evaluate the Adoption and/or Implementation of Codes and Standards Activities

Activity	Eligibility			
	HMGP and HMGP Post Fire 5 Percent Initiative	HMGP and HMGP Post Fire 5 Percent Codes and Standards	HMGP and HMGP Post Fire 7 Percent Planning	BRIC
Evaluate which code adoption and enforcement activities are best suited for the jurisdiction	Yes	Yes	Yes, land use ordinances only	Yes
Adopt building codes or develop building code requirements that help make the community more resilient (including publication of those requirements) related to land use, zoning, floodplain management, infrastructure, urban-wildland defensible space (e.g., building, stormwater management regulations) or other area	Yes	Yes	Yes, land use ordinances only	Yes
Improve or modify current or existing building code requirements to reflect the minimum standard of the most recent published code editions, exceed the latest code editions, or develop or modify building code-coordinated requirements that help make the community more resilient (including publication of those requirements) related to land use, zoning, floodplain management, infrastructure, urban-wildland defensible space (e.g., stormwater management regulations) or other area	Yes	Yes	Yes, land use ordinances only	Yes
Enhance existing adopted codes and enforcement to incorporate more current requirements, higher standards, electronic permitting, online model code access, virtual inspection technology and remote building codes administration	Yes	Yes	No	Yes
Provide or pursue training, including individual certification courses (inspector, plans reviewer, certified floodplain manager) and training for both the public and private sectors	Yes	Yes	Yes, when in support of an eligible planning activity	Yes

Activity	Eligibility			
	HMGP and HMGP Post Fire 5 Percent Initiative	HMGP and HMGP Post Fire 5 Percent Codes and Standards	HMGP and HMGP Post Fire 7 Percent Planning	BRIC
Develop planning, training and exercises for post-disaster building code enforcement	Yes	Yes	Yes	Yes
Develop or acquire software, hardware and associated training to assist with plan reviews, permitting, inspections and records retention	Yes, when in support of other eligible activities	Yes, when in support of other eligible activities	No	Yes
Purchase publications—obtain digital license or printing permissions of publications—to support building code activities	Yes	Yes	No	Yes
Engage consulting services to support activities related to building codes	Yes	Yes	No	Yes
Engage consulting services to support activities related to land use ordinances	Yes	Yes	Yes	Yes
Cover costs associated with building department accreditation	Yes	Yes	No	Yes
Conduct public awareness activities and outreach related to building codes	Yes	Yes	No	Yes
Conduct public awareness activities and outreach related to land use ordinances	Yes	Yes	Yes	Yes
Develop activities related to improving code enforcement (evaluate processes, implement an inspection program, improve Building Code Effectiveness Grading Scale score, improve CRS rating)	Yes	Yes	Yes, for CRS rating only	Yes

If a property owner needs additional design assistance to complete the permitting process, project scoping or advance assistance may be used.

F.1.1.2. HMGP and HMGP Post Fire Post-Disaster Code Enforcement

HMGP and HMGP Post Fire may provide assistance for code enforcement after a disaster to ensure that disaster-resistant building codes (codes, standards and local ordinances that promote disaster

resistance) are adopted and implemented. Eligible costs are “extraordinary” post-disaster code enforcement costs or the costs that exceed the building department’s normal costs. The best time for local communities to enforce post-disaster codes is during response and recovery. Subapplicants may apply for post-disaster code enforcement activities once the HMGP or HMGP Post Fire application period has been opened.

As part of PA, FEMA is also authorized to provide assistance to state and local governments for building code and floodplain administration and enforcement, including inspections for substantial damage compliance, for a period of not more than 180 days after the major disaster is declared. HMGP and HMGP Post Fire can provide assistance for post-disaster building code activities to continue past the 180-day PA limit. If a recipient or subrecipient receives PA assistance for building code enforcement and administration activities and intends to continue these activities after PA is no longer available, they should submit a subapplication under HMGP or HMGP Post Fire as soon as possible so the subapplication can be reviewed and approved before PA expires. More information can be found in [FEMA Policy #204-079-01, Building Code and Floodplain Management Administration and Enforcement](#) (Oct. 15, 2020).

[Table 14](#) highlights eligible post-disaster code enforcement and recovery activities.

Table 14: Eligible Post-Disaster Code Enforcement and Recovery Activities

Activity	Eligibility			
	HMGP and HMGP Post Fire 5 Percent Initiative	HMGP and HMGP Post Fire 5 Percent Codes and Standards	HMGP and HMGP Post Fire 7 Percent Planning	BRIC
Conduct post-disaster code enforcement activities	Yes	Yes	No	No
Track and enforce disaster-damaged properties (including substantially damaged structures) to ensure they are repaired to appropriate building codes and flood management standards	Yes	Yes	No	No
Provide technical assistance to property owners during repairs of disaster-damaged structures (including substantially damaged structures)	Yes	Yes	No	No

F.1.2. Ineligible Activities

Codes and standards activities cannot result in adoption or enforcement of requirements that are weaker than consensus-based codes and standards. The jurisdiction’s normal staffing costs are not

eligible under HMGP, HMGP Post Fire or BRIC. Costs covered by other federal assistance programs (e.g., Public Assistance) are not eligible. A general list of ineligible activities is included in [Part 4](#).

F.1.3. Program Income

If this project type will include processing permit applications and communities receive fees for those permit applications, then the subapplicant needs to consider how this support is above and beyond what is supposed to be covered by permit fees. Fee waivers are considered program income. For more information on program income, refer to [Part 8](#).

F.1.4. Assistance Restrictions

Codes and standards projects may be funded via multiple assistance opportunities under HMGP and HMGP Post Fire:

- **5 Percent Initiative:** Up to 5% of the HMGP ceiling amount or HMGP Post Fire available assistance amount may be set aside by the recipient to pay for activities for which it is difficult to quantify cost effectiveness. Applicants may apply for 5% of the HMGP ceiling amount or HMGP Post Fire available assistance amount for codes and standards activities under the 5 Percent Initiative, in addition to the 5 Percent Codes and Standards funding mentioned immediately below. Applicants may use this funding opportunity if the 5 Percent Initiative assistance is not used for other activities. Codes and standards activities are just one type of eligible activity under the 5 Percent Initiative.
- **5 Percent Codes and Standards:** Applicants may apply for up to 5% of the HMGP ceiling amount or HMGP Post Fire available assistance amount for codes and standards activities. This funding source was previously referred to as “Additional 5 Percent Initiative.” The name and requirements have been updated to provide dedicated funding to strengthen the use of building codes and standards. The 5 Percent Codes and Standards offers eligibility for a variety of codes and standards activities. This funding source must be used for codes and standards activities and may be paired with the 5 Percent Initiative for a total of up to 10% of the HMGP ceiling amount or HMGP Post Fire available assistance amount.
- **Other federal funding:** Any codes and standards activities funded by another federal program are not eligible for assistance under HMGP or HMGP Post Fire. For example, codes and standards activities funded under PA cannot also be funded under HMGP or HMGP Post Fire. Once the available PA support has been exhausted, codes and standards activities can then be continued under HMGP and HMGP Post Fire.

Assistance for codes and standards activities under BRIC are described in detail in the yearly NOFO. Codes and standards activities are only eligible for assistance under the state/territory allocation and tribal set-aside; they are not eligible for assistance under the national competition.

F.1.5. Cost Effectiveness

Subapplications for codes and standards activities under HMGP, HMGP Post Fire and BRIC are not required to perform a BCA if the assistance amounts are within the restrictions noted above for HMGP, HMGP Post Fire or within the limitations set forth in the relevant BRIC NOFO.

F.2. Application and Submission Information

All subapplications submitted to FEMA must meet the eligibility criteria in [Part 4](#). All subapplications must have a scoping narrative in accordance with [Part 6](#). Specific criteria for codes and standards subapplications are highlighted below.

- A description of how the proposed activity aligns with the current mitigation plan.
- The outreach and engagement plan (if applicable) and an account for the time and effort it may take to incorporate public and stakeholder feedback.
- The goals of the codes and standards activity and specific deliverables.
- The steps the subapplicant will follow to complete the codes and standards activity and proposed deliverables.
- A description of the deliverables, tasks and schedule.

FEMA may request additional information after the subapplication has been submitted to ensure all necessary information is received. However, all information required by the regulations and the guidance must be received before an assistance decision and award or final approval can be made.

F.2.1. Activities and Schedule

All subapplications, as part of the scope of work, should include an activities description referencing industry standards or project plans and specifications. The subapplication needs to describe the deliverable for the proposed activity and include a schedule for completing the activities.

Development of the Activities Description: The activities description explains how a subapplicant will organize and execute the related activity. Generally, the description explains the activities that will be completed and identifies the deliverable product. The subapplicant should identify whether the subapplication expects to use contract support, identifies stakeholders or explains public outreach.

An activities description should address the following:

- **Tasks:** The subapplicant must describe the tasks needed to accomplish the proposed activity as well as any required procurement.

- **Alignment with current mitigation plans:** The scope of work must describe how the proposed activity builds on activities in the current approved mitigation plan or describe how this information will be incorporated into the next update of the plan.
- **Conformance with NFIP:** The scope of work must indicate that the proposed codes and standards deliverables will comply with NFIP requirements. The scope of work must include an assessment of the deliverables by the NFIP state or tribal coordinator to determine if the deliverables are compliant with NFIP regulations.
- **Public and stakeholder engagement plan:** The scope of work must identify the outreach and engagement plan. The activity description should account for the time and effort it may take to incorporate public and stakeholder feedback.
- **Codes and standards assessment and adoption:** The scope of work must describe the codes and standards assessment and drafting process, adoption by the subrecipient/participant jurisdictions and final approval by the recipient, as applicable.
- **Goals:** The scope of work must include the goals of the related codes and standards activity and identify specific deliverables that will be completed by the activity.
- **Training and exercises:** The scope of work must describe any proposed training and exercise activity and identify how it will support the ability and capacity building of personnel.
- **Equipment and publications:** The scope of work must describe the proposed acquisition of software and hardware, if applicable, and the intention to purchase building code publications or subscriptions.
- **Implementation strategy:** The scope of work must outline the steps the subapplicant will follow to implement the codes and standards activity and complete the proposed deliverables. This information should include a project schedule.

F.2.2. Costs and Budget

Pre-award costs must be identified in the budget to be considered eligible incurred costs.

The recipient must submit enough financial detail to demonstrate that no costs claimed under technical assistance are duplicated in other subapplications including those for management costs. Costs covered by other federal assistance programs (e.g., Public Assistance) are not allowable.

All subapplications must include a line-item breakdown of all anticipated costs while referencing the cost code categories on SF-424.

F.3. Subaward Implementation

Applicants and subapplicants must submit documentation to FEMA to support that they accomplished all activities listed in their partnership application. Post-award monitoring helps ensure

subapplicants/subrecipients are achieving the objectives of the federal award consistent with the performance goals and milestones described in the subaward.

To assist the recipient in monitoring codes and standards activities, the following milestone information or events (if appropriate) should be included in Quarterly Progress Reports:

- If the subrecipient is acquiring contract support, the subrecipient should report when the request for proposal is completed, when the contract is out for bid, when the bid period closes, when proposals are reviewed, when the contractor is selected and the date of the kickoff meeting.
- Public meetings and or public comment periods that have been planned or completed.
- Training or exercises that have been scheduled and completed.
- When the subapplicant has adopted the code or standard, if adoption is delayed or if the subapplicant does not intend to adopt the code or standard.
- Any other milestones that have been identified in the subapplication, agreed to, or are required by the recipient.

F.3.1. Budget and Scope of Work Changes

Recipients are required to report deviations from budget, project scope or objectives in accordance with [Part 8](#). Recipients must request prior written approvals from FEMA for certain budget and program plan revisions.³³⁶

In addition, prior approval from FEMA is required for the following:

- When a subrecipient wants to change the scope of work or the objective of the codes or standards activity (e.g., the level of effort, outreach activities, deliverables).
- When the subrecipient/jurisdiction chooses not to adopt the code or standard as described in the scope of work.

F.4. Closeout

Recipients and subrecipients must closeout activities in a timely manner consistent with [Part 9](#).

The recipient must provide a statement showing that all work in the approved scope of work including the proposed deliverables and tasks was completed. This information can be included in the body of the closeout letter.

If the scope of work included adoption of a code or standard, the recipient must provide documentation to demonstrate the code or standard was adopted by the subapplicant/participating

³³⁶ [2 CFR § 200.308](#)

jurisdictions. In addition, the closeout statement should include documentation that the state or tribal NFIP coordinator has determined the codes and standards are compliant with NFIP regulations, if applicable. The subrecipient must also provide a brief description of lessons learned or success stories.

HMA Grant Closeout Field Guides and Closeout Checklists can be found on FEMA's "[HMA Monitoring and Closeout Guidance](#)" webpage.

F.5. Codes and Standards Resources



Codes and Standards Resources

- Reducing Flood Losses Through the International Codes: Coordinating Building Codes and Floodplain Management Regulations, 5th Edition (2019): <https://www.fema.gov/node/reducing-flood-losses-through-international-codes>
- International Building Code: <https://www.iccsafe.org/products-and-services/i-codes/2018-i-codes/ibc/>
- International Residential Code: <https://www.iccsafe.org/products-and-services/i-codes/2018-i-codes/irc/>
- American Society of Civil Engineers/Structural Engineering Institute 7: <https://www.asce.org/asce-7/>
- American Society of Civil Engineers 24: <https://ascelibrary.org/doi/book/10.1061/asce24>
- BRIC Building Code Activities: https://www.fema.gov/sites/default/files/2020-08/fema_bric-building-code-activities_support_document_august_2020.pdf
- FEMA Building Science: <https://www.fema.gov/emergency-managers/risk-management/building-science>
- International Code Council 500: <https://shop.iccsafe.org/icc-500-2014-standard-and-commentary-icc-nssa-standard-for-the-design-and-construction-of-storm-shelters-1.html>
- FEMA Policy 2014-079-01, *Building Code and Floodplain Management Administration and Enforcement*: https://www.fema.gov/sites/default/files/2020-10/fema_building-code-floodplain-management-administration-enforcement-policy_drra-1206_signed_10-15-2020.pdf

Part 12. Mitigation Projects

This section provides guidance on common project types that are generally eligible for Hazard Mitigation Assistance (HMA). Each project-specific section in this part generally follows the same outline by first providing an overview of the project type, followed by eligibility criteria and a description of eligible activities, application and submission information, subaward implementation, closeout and additional resources. To be eligible for HMA, all hazard mitigation projects must meet the general eligibility criteria and other requirements described in [Part 4](#).

Natural hazards such as flooding, high wind, extreme temperatures, drought, earthquakes, wildfires and landslides pose major threats to communities across the United States. Reducing these threats to lives, properties and the economy is a top priority for FEMA and many communities.

The following sections highlight common HMA project types but should not be considered an exhaustive list of potentially eligible projects.

A. Property Acquisition and Structure Demolition or Relocation

Generally, FEMA-assisted property acquisition and structure demolition or relocation projects consist of a community purchasing properties from voluntary sellers and either demolishing or relocating the structures on the property to a new site outside of the hazard-prone area. The purchased property is then maintained, in perpetuity, for open-space purposes and to restore or conserve the site's natural functions.

FEMA generally encourages communities to opt for the property acquisition and structure demolition model. These projects are simpler because they typically require minimal EHP review, are considerably less expensive and allow homeowners to determine where to relocate.

Property acquisition and structure relocation typically involve the acquisition of land and the physical relocation of an existing structure on that land to an area outside of a hazard-prone area, such as outside of the Special Flood Hazard Area (SFHA) or a regulatory erosion zone. Relocation must conform to all applicable state and local regulations.

Properties acquired with FEMA assistance for structure demolition or relocation projects must be dedicated and maintained in perpetuity as compatible with open space for the conservation of natural floodplain functions.³³⁷ These compatible open space uses may include parks for outdoor recreational activities, wetlands management and natural reserves, cultivation, grazing, camping (with some safety-related exceptions) and unimproved, unpaved parking lots. The regulation also authorized FEMA to allow other uses the agency determines are compatible with open space because these uses conserve the natural floodplain function.³³⁸

Establishing and maintaining open space uses in perpetuity is accomplished by recording deed restrictions consistent with the [FEMA Model Deed Restriction \(FF-206-FY-22-157\)](#). Recipients and subrecipients are responsible for oversight in ensuring and enforcing proper land use and coordinating with and gaining approval from FEMA on any future land use change or property disposition issues.³³⁹ FEMA must review and approve the proposed land use of all property acquired for open space purposes unless the use is grading and seeding of the former building site.³⁴⁰

No new structures will be built on the property, except:³⁴¹

³³⁷ [44 CFR § 80](#)

³³⁸ [44 CFR § 80.19\(a\)](#)

³³⁹ [44 CFR § 80.19\(a\)](#)

³⁴⁰ Under [44 CFR § 80.5\(a\)\(4\)](#), FEMA is responsible for “making determinations on the compatibility of proposed uses with the open space purpose, in accordance with 44 CFR § 80.19.” FEMA determined that [grading and seeding is generally not a separate use; rather, grading and seeding of the building site is a necessary and reasonable part of a demolition.](#)

³⁴¹ [44 CFR § 80.19\(a\)\(2\)](#)

- Public buildings that are open on all sides and functionally related to a designated open space or recreational use.
- Public restrooms.
- Structures that are compatible with open space, recreational or wetlands management use and applicable floodplain management policies and practices, and for which compatibility is confirmed in writing by the FEMA regional administrator before construction of the structures begins.
- Structures described in the above three bullets that will be elevated or floodproofed to the Base Flood Elevation plus one foot of freeboard and that meet the applicable requirements of the National Flood Insurance Program (NFIP) floodplain management regulations in [44 Code of Federal Regulations \(CFR\) § 60.3](#).³⁴²

A.1. Property Acquisition: Eligibility

To receive assistance for property acquisition and structure demolition or relocation projects that create open space, applicants and subapplicants must meet the regulatory requirements in [44 CFR Part 80](#) and the criteria outlined below and in [Part 4](#). A project may not be framed in a manner that has the effect of circumventing these requirements.³⁴³

A.1.1. Eligibility Criteria

For a property to be eligible for FEMA-assisted acquisition, the subapplicant must acquire the full fee title of the property (except for any easements and encumbrances that FEMA determines are compatible with open space) from a willing, voluntary seller, or must retain such interest.³⁴⁴ The subapplicant must commit not to use eminent domain if the property owner chooses not to participate and must verify that the property is not needed as part of another intended or planned HMA project.³⁴⁵ Once assistance has been awarded for the project, a property may not be subdivided before it is acquired except for portions outside the SFHA or any risk zone identified by FEMA.³⁴⁶

Subrecipients must apply deed-restriction language to all acquired properties to ensure the property is maintained in perpetuity as open space consistent with natural floodplain functions, as agreed to by accepting FEMA hazard mitigation award assistance.³⁴⁷ Deed restriction language is applied to acquired properties by recording the open space and deed restrictions. Modifications to the language in the [FEMA Model Deed Restriction \(FF-206-FY-22-157\)](#) can only be made with prior approval from the FEMA Office of Chief Counsel through the appropriate FEMA regional office.

³⁴² [44 CFR § 80.19\(a\)\(3\)](#)

³⁴³ [44 CFR § 80.7](#)

³⁴⁴ [44 CFR § 80.11\(d\)](#)

³⁴⁵ [44 CFR § 80.11\(a\); 44 CFR § 80.13\(a\)\(5\)](#)

³⁴⁶ [44 CFR § 80.11\(c\)](#)

³⁴⁷ [44 CFR § 80.11\(f\)](#)

A property is eligible for acquisition if it meets all the following requirements:

- FEMA approves the proposed land use of all property acquired for open space purposes, unless the use is limited to grading and seeding of the former building site (FEMA has determined that grading and seeding is generally not a separate use; rather grading and seeding of the building site is necessary and reasonable part of a demolition. Additional approval is not required if the activity is limited to grading and seeding of the former building site).
 - FEMA must review each request to determine if the proposal is compatible with the purpose of open space as stated in regulation and consistent with the deed restrictions, grant agreements, the HMA Guide or most current edition, and floodplain management requirements.³⁴⁸
 - FEMA reviews open space land use either when it reviews a subapplication for acquisition of land for open space or once the acquisition is completed, if the subrecipient proposes a change in land-use post-acquisition.
- It will be acquired from a willing, voluntary seller. The owner of the acquired property must voluntarily agree to sell the land.³⁴⁹ During the development of an acquisition project for open space, property owners are responsible for notifying the subapplicant of their interest in participating in the proposed project. They must provide all information requested by the subapplicant and complete all actions that are required to complete the subapplication and to implement the property acquisition and structure demolition or relocation.³⁵⁰
- It contains an at-risk structure that may or may not have been damaged or destroyed because of a hazard event. In certain circumstances, undeveloped, flood-prone or at-risk land that is part of a project with an adjacent eligible property with one or more existing structure(s), and the total project remains cost-effective, may also be eligible.³⁵¹
- The subapplicant acquires or retains fee title, except for encumbrances FEMA determines are compatible with open space uses, as part of the project implementation.³⁵²
- It is not contaminated with hazardous materials at the time of acquisition other than incidental demolition or household waste.³⁵³ It is not part of an intended, planned or designated project area for which the land is to be acquired by a certain date and/or where there is an intention to use the property for any public or private use that is inconsistent with the open space deed restrictions and FEMA acquisition requirements (e.g., roads, flood risk reduction levees). The

³⁴⁸ [44 CFR § 80.5\(a\)](#)

³⁴⁹ [44 CFR § 80.11\(a\)](#)

³⁵⁰ [44 CFR § 80.5\(d\)](#)

³⁵¹ [44 CFR § 80.11\(b\)](#)

³⁵² [44 CFR § 80.11\(d\)](#)

³⁵³ [44 CFR § 80.11\(e\)](#)

property acquired or from which a structure is removed must be dedicated as open space in perpetuity consistent with the regulations in [44 CFR Part 80](#).³⁵⁴

Other eligibility requirements are as follows:

- In accordance with the [Coastal Barrier Resources Act of 1982](#),³⁵⁵ HMA programs may assist projects in Otherwise Protected Areas if they do not require flood insurance after project completion.³⁵⁶ Acquisitions in a John H. Chafee Coastal Barrier Resources System (CBRS) unit are eligible only if they qualify for one of the exceptions in Section 6 of the Coastal Barrier Resources Act.³⁵⁷ That is, acquisitions are eligible if they are consistent with the purposes of the Coastal Barrier Resources Act and qualify as projects for the study, management, protection and enhancement of fish and wildlife resources and habitats.³⁵⁸
 - All projects that occur in or adjacent to CBRS units must meet one of the Coastal Barrier Resources Act exceptions and require that FEMA consult with the appropriate U.S. Fish and Wildlife Service Ecological Services field office.
 - Proposed actions carried out within or adjacent to an Otherwise Protected Areas do not require consultation with Fish and Wildlife Service.
- Any structure that is relocated must be placed outside the SFHA and outside any regulatory erosion zone or other mapped hazard area, and the relocation must conform to any other applicable state or local land use regulations.

A.1.2. Eligible Activities

Eligible activities include property acquisition and structure demolition, as well as property acquisition and structure relocation. These activities are eligible under HMGP, HMGP Post Fire, BRIC and Flood Mitigation Assistance (FMA); however, for purposes of FMA, only property acquisition and structure demolition or relocation based on flooding is eligible.³⁵⁹

The following sections outline special considerations.

³⁵⁴ [44 CFR § 80.11\(f\)](#)

³⁵⁵ Public Law 97-348 (Oct. 18, 1982), as amended. To remove federal incentives to develop coastal areas, the Coastal Barrier Resources Act designated relatively undeveloped land along the Atlantic and Gulf Coast as part of the John H. Chafee Coastal Barrier Resources System (CBRS) and made these areas ineligible for most new federal assistance.

³⁵⁶ Congress reauthorized the Coastal Barrier Resources Act with the Coastal Barrier Improvement Act of 1990 (Public Law 101-591 [Nov. 16, 1990]), expanding the CBRS to include undeveloped coastal barriers along the Keys, Great Lakes, Puerto Rico and the U.S. Virgin Islands. It also added a new category of undeveloped barriers called [Otherwise Protected Areas](#). Otherwise Protected Areas consist of conservation or recreation areas such as national wildlife refuges, state and national parks, local conservation areas, and private conservation areas, although they may also contain private areas not for conservation.

³⁵⁷ [16 United States Code \(U.S.C.\) § 3505](#)

³⁵⁸ [16 U.S.C. § 3505\(a\)\(6\)\(A\)](#), [44 CFR § 206.345](#)

³⁵⁹ [44 CFR § 77.6](#), [44 CFR Part 80](#)

A.1.2.1. Pre-Award Demolition Activities

FEMA's regulation on eligible costs for acquisitions states that the agency may assist eligible pre-award costs at its discretion as assistance is available.³⁶⁰ Recipients and subrecipients may be reimbursed for eligible pre-award costs for activities directly related to the project proposal's development. Demolition, construction and ground disturbing activities that were implemented, initiated or completed prior to an award generally are not eligible, and FEMA generally does not reimburse costs for these activities.³⁶¹

If FEMA determines a property owner used private funds to demolish an event-damaged structure, and at the time of the demolition the property had not been in a subapplication submitted to FEMA, the demolition is not a connected action. Therefore, the demolition is not subject to FEMA review and approval for EHP compliance, and the costs of the demolition are not considered pre-award costs. Therefore, the demolition does not preclude a finding of project eligibility. If the demolition is not connected to a FEMA federal action, no FEMA EHP review of the demolition is necessary, and demolition costs will not be eligible for reimbursement under HMA programs. The demolition must be in accordance with state and local legal requirements and any applicable federal law. However, FEMA will continue to analyze the cumulative impacts of any privately conducted demolition and subsequent FEMA-assisted projects as required under the [National Environmental Policy Act](#) as part of its EHP review process.³⁶²

The federal action is recognized as beginning when the project subapplication is submitted to FEMA. Properties where pre-award demolition activities have occurred prior to the subapplication being submitted to FEMA may be eligible when:

- No demolition is underway at the time the subapplication is submitted. A homeowner-initiated demolition must be fully completed prior to that property being submitted to FEMA.
- Demolition costs are not included in the subapplication. Private individuals have demolished damaged structures using private funds or other non-federal funds prior to application for HMA.
- The demolition is in accordance with state and local legal requirements and any applicable federal law.

Once the property is included in an HMA subapplication submitted to FEMA, work must not be initiated prior to issuance of the subaward. Otherwise, the work would be a connected action and subject to FEMA review.

A.1.2.2. Sinkholes

Structures that show signs of damage that was determined to have been caused by sinkhole activity, or structures that have moved or have begun to move downward into a sinkhole, are eligible for

³⁶⁰ [44 CFR § 80.9\(b\)](#)

³⁶¹ [44 CFR § 80.9\(b\)](#), [2 CFR § 200.458](#)

³⁶² Public Law 91-190 (Jan. 1, 1970), as amended

consideration for property acquisition and structure demolition or relocation under the Hazard Mitigation Grant Program (HMGP), Hazard Mitigation Program Post Fire (HMGP Post Fire) and Building Resilient Infrastructure and Communities (BRIC).

Indicators of sinkhole damage on or related to the structure, when accompanied by evidence of a sinkhole, may include:

- The descending of the structure below the original grade of construction.
- Doors and windows that fail to close properly or exhibit changed behavior.
- Cracks in walls, floors, adjacent pavement and the ground surface.
- Floors with sloping or unevenness that had not been apparent previously.

Sinkhole development may also be determined by observing disturbances around the affected structure. These site disturbances can support a determination that a sinkhole may be the cause of the structural damage listed above.

To be eligible for assistance, the applicant and subapplicant must submit supporting documentation that the cause of structural damage is sinkhole-related and at least partially due to a natural geologic process. The documentation must be prepared and signed by an appropriately registered, certified, or licensed state or local professional engineer, architect, landscape architect or geologist. Documentation of disturbances around the structure may also be included; however, the primary eligibility factor must be evident from structural damage from a sinkhole.

All other applicable eligibility considerations described in the other parts of the HMA Guide also apply.³⁶³

A.1.3. Ineligible Activities

A general list of ineligible activities is included in [Part 4](#).

A.1.4. Cost Effectiveness

Applicants and subapplicants must demonstrate that hazard mitigation projects are cost-effective consistent with the requirements described in [Part 5](#).

A.1.4.1. Pre-Calculated Benefits for Acquisitions

FEMA has determined the national average for benefits for acquisition projects. Based on this analysis, FEMA developed pre-calculated benefits for acquisition projects located in the SFHA (1% annual chance floodplain) and for certain projects, such as Repetitive Loss or Severe Repetitive Loss acquisitions, located outside the SFHA. For Benefit-Cost Analysis (BCA) purposes, property

³⁶³ [44 CFR Part 80](#)

acquisition and structure demolition or relocation projects are treated the same. The current pre-calculated benefits value for acquisition projects can be found on FEMA’s [“How to Complete a Streamlined BCA”](#) webpage.

A.1.4.1.1. Pre-Calculated Benefits for Structures Located in the SFHA

FEMA has determined that the acquisition of a structure located in the SFHA, as delineated on the Flood Insurance Rate Map (FIRM) or based on best available data, with total project costs less than or equal to the current pre-calculated benefits value, is considered cost-effective.³⁶⁴ For projects that contain multiple structures, the average cost of all structures in the project must meet the stated criterion (provided all structures are within the SFHA).

The specific geographic location of structures can increase acquisition costs. The benefit amounts identified above may be adjusted by using the most current location factors included in industry-accepted construction cost guides. If a multiplier is used, a copy of the source document must be included as part of the grant application.

The applicant or subapplicant must provide a map that clearly identifies the structure’s footprint and delineates the SFHA, using the FIRM or best available data. If any part of the structure lies within the SFHA, the applicant or subapplicant can use the pre-calculated benefit value to demonstrate cost effectiveness. No other detailed analysis is required. These pre-calculated benefits can be used in riverine and coastal SFHAs.

For up-to-date information on the dollar value of pre-calculated benefits visit FEMA’s [“How to Complete a Streamlined BCA”](#) webpage.

A.1.4.1.2. Pre-Calculated Benefits for Properties Located Outside the SFHA

FEMA has determined that the acquisition of a property with a structure designated as Repetitive Loss or Severe Repetitive Loss, regardless of location within or outside the SFHA, with total project costs less than or equal to the current pre-calculated benefits value, is considered cost-effective.³⁶⁵ To use this pre-calculated benefit to demonstrate cost effectiveness, the structure(s) in the acquisition project must meet one of the following definitions for Repetitive Loss or Severe Repetitive Loss.

Repetitive Loss refers to a structure or property meeting either (1) or (2) from the following definitions:

1. A structure that meets one of the two following qualifiers:
2. Two or more claims of more than \$1,000 paid by the National Flood Insurance Program (NFIP) within any rolling 10-year period since 1978.

³⁶⁴ Total project costs include all applicable costs, not just the construction costs or federal share.

³⁶⁵ Total project costs include all applicable costs, not just the construction costs or federal share.

3. Two or more claims (building payments only) that, on average, equal or exceed 25% of the market value of the property.³⁶⁶
4. A structure covered by a contract for flood insurance made available under the NFIP that meets both of the two following qualifiers:
5. Has incurred flood-related damage on two occasions, in which the cost of the repair, on average, equaled or exceeded 25% of the market value of the structure at the time of each such flood event.
6. At the time of the second incidence of flood-related damage, the contract for flood insurance contains increased cost of compliance coverage.³⁶⁷

Severe Repetitive Loss refers to a structure or property meeting either (1) or (2) from the following definitions:

1. A structure that meets one of the two following qualifiers:
2. Received four or more separate claim payments of more than \$5,000 each (including building and contents payments).
3. Received two or more separate claim payments (building payments only) where the total of the payments exceeds the current value of the property.³⁶⁸
4. A structure covered by a contract for flood insurance made available under the NFIP that has incurred flood-related damage and meets one of the two following qualifiers:
5. Four or more separate claims payments (includes building and contents) have been made under flood insurance coverage with the amount of each such claim exceeding \$5,000 and with the cumulative amount of such claims payments exceeding \$20,000.
6. At least two separate claims payments (includes only building) have been made under such coverage, with the cumulative amount of such claims exceeding the market value of the insured structure.³⁶⁹

Alternatively, FEMA has determined that an acquisition project, where the Lowest Floor Elevation is lower than the Base Flood Elevation and the total project costs less than or equal to the current pre-calculated benefits value, is considered cost-effective.³⁷⁰ For projects that contain multiple structures, the average cost of all structures in the project must meet the stated criterion.

³⁶⁶ [44 C.F.R. § 209.2](#) and Part 61, Appendices A(1)-A(3); FEMA, National Flood Insurance Program, [Flood Insurance Manual](#), Appendix A, pages 11 (October 2022); and FEMA, National Flood Insurance Program, [Community Rating System Coordinator's Manual](#), pages 120-7 (2017).

³⁶⁷ [42 U.S.C. § 4121\(a\)\(7\)](#); and [44 C.F.R. § 77.2\(i\)](#)

³⁶⁸ [42 U.S.C. § 4014\(h\)](#); FEMA, National Flood Insurance Program, [Flood Insurance Manual](#), page 35, Appendix F (October 2022); and FEMA, National Flood Insurance Program, [Community Rating System Coordinator's Manual](#), page 120-8 (2017).

³⁶⁹ [42 U.S.C. § 4104c\(h\)\(3\)](#); and [44 CFR § 77.2\(j\)](#).

³⁷⁰ Total project costs include all applicable costs, not just the construction costs or federal share.

If using the Lowest Floor Elevation and Base Flood Elevation to qualify, the Lowest Floor Elevation and Base Flood Elevation must be provided for each structure. No other detailed analysis is required.

The specific geographic location of structures can increase acquisition costs. The benefit amounts identified above may be adjusted by using the most current location factors included in industry-accepted construction cost guides. If a multiplier is used, a copy of the source document must be included as part of the grant application.

For up-to-date information on the dollar value of the pre-calculated benefit, refer to FEMA's "[How to Complete a Streamlined BCA](#)" webpage.

A.1.4.1.3. Pre-Calculated Benefits for Multi-Unit Residential Structures

If a multi-unit residential structure would otherwise qualify to use the acquisition pre-calculated benefits, the benefit may be adjusted by multiplying the number of ground- or first-floor units by the current pre-calculated benefits value. For example, the pre-calculated benefit for an eight-unit apartment building with four ground-floor units would be the current pre-calculated benefits value multiplied by the number of ground- or first-floor units (in this case, four). If the entire project cost is less than that amount, the project could use the pre-calculated benefit for acquisitions if it meets the other requirements. Documentation such as building plans, should be provided to justify the number of first- or ground-floor units.

For up-to-date information on the dollar value of pre-calculated benefits, visit FEMA's "[How to Complete a Streamlined BCA](#)" webpage.

A.1.4.1.4. Pre-Calculated Benefits for Non-Residential Structures

The pre-calculated benefit for acquisitions may be used for non-residential structures if they would otherwise qualify by meeting the criteria described above (i.e., the structure is in an SFHA, is designated as Repetitive Loss or Severe Repetitive Loss, or has its Lowest Floor Elevation below the Base Flood Elevation). However, all structures counted must be occupiable, meaning they are designed to have people living or working in them. Small ancillary structures such as sheds, outhouses and garages may not be counted in the number of structures, although they may be demolished as part of the project.

For up-to-date information on the dollar value of the pre-calculated benefit, refer to FEMA's "[How to Complete a Streamlined BCA](#)" webpage.

A.1.4.2. Substantially Damaged Structures in a Riverine SFHA

The acquisition of structures that are declared substantially damaged (from any hazard) and located in a riverine SFHA on a preliminary, advisory or effective FIRM are considered cost-effective. Substantial damage is defined as damage sustained by a building whereby the cost of restoring the building to its before-damaged condition would equal or exceed 50% of the market value of the

building before the damage occurred.³⁷¹ If this methodology is used, the project subapplication must include a certification from the local floodplain administrator or a certified state/tribal floodplain specialist that identifies and declares the structure as substantially damaged.

A.1.4.3. Landslide Hazard Benefit-Cost Analysis

The FEMA [BCA Toolkit](#) includes a methodology for calculating the Benefit-Cost Ratio (BCR) for the acquisition of properties in landslide hazard areas where there is an immediate threat of catastrophic slope failure (within five years of application development).³⁷² Applicants are required to complete the BCR based on the replacement cost value, the number of occupants and the project costs; the BCA Toolkit will calculate all other values automatically using standard FEMA values and methodologies. The BCR calculation is based on having no recurrence interval because once the landslide occurs there would be a catastrophic failure, and the structure would not be at risk for further landslides. Applicants are required to attest that the structure is within five years of imminent collapse because of landslide hazards.

Immediate Threat

An immediate threat is defined in [44 CFR § 206.221\(c\)](#) as “the threat of additional damage or destruction from an event which can reasonably be expected to occur within five years” (e.g., a 20% chance of occurrence per year).

A.1.4.4. Sinkhole Hazard Benefit-Cost Analysis

Applicants may use the landslide acquisition BCA approach for the acquisition of residential and non-residential properties in sinkhole hazard areas. This methodology does not incorporate a recurrence interval because once a sinkhole event occurs, failure would be catastrophic, and a total loss would result. Residential acquisition benefits are based on replacement cost value of the structure and contents, displacement costs and 5% of the value of human life. Benefits for non-residential acquisitions are based on the replacement cost value, relocation costs and business losses. For either type of acquisition, project costs include demolition and disposal or relocation. Applicants are required to attest that the structure is within five years of imminent collapse because of sinkhole hazards.

Costs are based on expenses required to purchase the house at the pre-event market value (like in routine flood-hazard acquisitions). Applicants are required to attest that the structure is within five years of imminent collapse because of sinkhole hazards. They may obtain this determination from a state or local professional geologist or engineer. If they hire a professional geologist or engineer to make the determination, the costs for those services may be eligible as a pre-award expense.

³⁷¹ [44 CFR § 59.1](#)

³⁷² [44 CFR § 206.221\(c\)](#)

A.1.5. Feasibility and Effectiveness

Projects must be consistent with [Part 4](#). Hazard mitigation projects assisted by HMA programs must be both feasible and effective at mitigating the risks of the hazard(s) for which the project was designed. A project’s feasibility is demonstrated through conformance with accepted engineering practices, established codes, standards, modeling techniques or best practices.

A.1.6. Environmental and Historic Preservation

All subapplications submitted to FEMA must meet the EHP criteria in [Part 4](#). All subapplications must provide the information described in [Part 6](#) so that FEMA may perform the EHP review.

Properties that are contaminated with hazardous materials are not eligible for acquisition.³⁷³ The subrecipient must ensure a property with past or present commercial or industrial use and any adjacent properties suspected of having hazardous materials at the site are not contaminated when the project application is approved.

If FEMA selects the subapplication for further review, the subrecipient must meet the requirements of the Environmental Protection Agency’s “all appropriate inquiries” rule,³⁷⁴ including contracting with an appropriately qualified environmental professional to perform a Phase I environmental site assessment as defined by the rule. Any assessment must be in accordance with the procedures of the most current ASTM International Standard [E1527](#), Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process or ASTM International Standard [E2247](#), Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property. The costs for meeting these requirements are considered eligible project costs if such costs are included in the project budget.

In accordance with these criteria and [44 CFR § 80.17\(a\)](#), the subrecipient shall:

- Conduct interviews with past and present owners, operators and occupants.
- Search for recorded environmental cleanup liens.
- Review federal and state, local, tribal and territorial government records.
- Conduct visual inspections of the facility and of adjoining properties.

The purpose of the Phase I environmental site assessment is to identify conditions that are indicative of releases and threatened releases of hazardous substances, pollutants, contaminants, petroleum and petroleum products, and controlled substances on, at, in or to the subject property by gathering the following types of information about the subject property:

³⁷³ [44 CFR § 80.11\(e\)](#)

³⁷⁴ [40 CFR Part 312](#)

- Current and past property uses and occupancies.
- Current and past uses of hazardous substances.
- Waste management and disposal activities that could have caused releases or threatened releases of hazardous substances.
- Current and past corrective actions and response activities undertaken to address past and ongoing releases of hazardous substances.
- Engineering controls.
- Institutional controls.
- Current and past uses and conditions of adjoining properties and the surrounding area (consistent with ASTM E1527) that could be considered a recognized environmental condition (i.e., the presence or likely presence of any hazardous substances or petroleum products in, on or at the property).

The subrecipient must gather all publicly available information obtainable from its source within reasonable time and cost constraints and that can practicably be reviewed.

If the Phase I environmental site assessment “all appropriate inquiries” report identifies the presence of hazardous substances, pollutants, contaminants, petroleum and petroleum products, or controlled substances on, at or in the subject property, the subrecipient must require the owner to remove the materials or remediate the property in accordance with any applicable federal, state, local, tribal or territorial government requirements. If a Phase II environmental site assessment (to evaluate suspected areas and to identify the nature and extent of contamination on, at, in or to the property) is required, the costs of this study are not eligible hazard mitigation grant project costs. Additionally, the cost of a Phase II environmental site assessment (to determine remediation plans, cleanup and certification of the property) is not an eligible hazard mitigation grant project cost.

A contaminated property must be certified clean,³⁷⁵ which requires a letter from the appropriate federal, state, local, tribal or territorial entity stating that no further remedial action is required to protect human health or the environment. A contaminated property must be certified clean before any interest in the property is purchased. The seller must also agree to indemnify the recipient, FEMA and the subrecipient for any liability arising from previous property contamination.

The [Acquisition Demolition-Required Information for Environmental Review](#) and [Acquisition and Relocation Information Required for Environmental Review](#) job aids list the documentation needed for FEMA to complete the EHP compliance review process for each project.

³⁷⁵ [44 CFR § 80.17\(a\)](#)

A.1.7. National Flood Insurance Program Eligibility Requirements

Hazard mitigation projects sited within the SFHA are eligible only if the jurisdiction is participating in the NFIP. For FMA only, all properties included in a subapplication for acquisition must be NFIP-insured at the time of the opening of the application period. For more information, refer to [Part 4.I](#).

A.2. Property Acquisition: Application and Submission Information

All subapplications submitted to FEMA must meet the eligibility criteria in [Part 4](#). All subapplications must have a scoping narrative in accordance with [Part 6](#). Project-specific criteria are highlighted below. The [Acquisition Technical Review](#) FEMA job aid covers the requirements associated with the technical reviews for acquisition projects.

FEMA may request additional information after the subapplication has been submitted to ensure that all necessary information is received. However, all information required by the regulations and the HMA Guide must be received before FEMA can make an assistance award decision or final approval.

Subapplicants are responsible for meeting the requirements and time frames in [44 CFR § 80.13](#) and for providing the information that is necessary for the applicant and FEMA to determine the eligibility of the project as described in the subapplication. The subapplication must also contain property and project information, including the project description and EHP information.

For property acquisition projects, the subapplication must include the following:

- The value of each property (pre-event or current, as appropriate) and documentation demonstrating how the market value was determined.
- An appeal or reconsideration process for property owners who dispute the purchase offer property valuation.
- [Statement of Assurances for Property Acquisition Projects \(FF-206-FY-22-156\)](#).
- A sample of the deed restriction.
- Property owner documentation.
- Voluntary interest documentation.
- Certification of owner status for pre-event value.
- Consultation regarding other ongoing federal activities.

A.2.1. Clear Title

The subrecipient must conduct a title search for each property it plans to acquire. The purpose of the title search is to ensure the owner is the sole and actual titleholder to the property, to identify other

persons with a property interest if the owner is not the sole and actual titleholder, and to ensure the title is clear (i.e., no mortgages or liens are outstanding on the sale of the property). In addition, the property must not have easements or other encumbrances that are incompatible with open space and would make the property either ineligible for acquisition or noncompliant with FEMA's open space land-use restrictions.

All known encumbrances that are incompatible with open space use must be revised or extinguished to ensure the property use is consistent with the open space requirements in [44 CFR Part 80](#) and the HMA Guide. New property acquisitions for properties encumbered with leases or other instruments allowing for subsurface hydraulic fracturing and horizontal directional drilling activities may be eligible for HMA funding. To demonstrate a clear fee title, the applicant will obtain a title insurance policy reflecting that all incompatible easements or other encumbrances to the title have been extinguished.³⁷⁶

If evidence obtained during the review indicates long-dormant subsurface rights (usually exceeding 50 years or beyond the reach of a standard title search) and the subsurface owner's identity is unknown or otherwise not reasonably ascertainable, FEMA may approve the eligibility of the acquisition on a case-by-case basis. If a right to access a subsurface resource is discovered and asserted after the acquisition, the recipient and subrecipient are required to take all appropriate action to enforce the open space restrictions required by [44 CFR § 80.19](#).

Other title-related requirements are as follows:

- A title insurance policy demonstrating the clear title must be obtained for each approved property that will be acquired.
- A physical site inspection for each property must be conducted to verify there are no physical encumbrances to the property (a site survey may be necessary to clearly establish property boundaries).
- The property title must be transferred by a warranty deed in all jurisdictions that recognize warranty deeds.
- All incompatible easements or encumbrances must be extinguished.
- The subrecipient organization must take possession at settlement.
- The subrecipient must record the deed at the same time as settlement along with the program deed restrictions.
- The deed transferring title to the property and the program deed restrictions will be recorded according to state law and within 14 calendar days after the settlement.

³⁷⁶ [44 CFR § 80.17\(b\)](#)

- All property transfers must be consistent with [44 CFR Part 80](#) and the HMA Guide.

A.2.2. Statement of Voluntary Participation

The [Statement of Voluntary Participation](#) (FF-206-FY-124) formally documents the notice of voluntary interest as required by [44 CFR § 80.13\(a\)\(4\)](#) and information related to the purchase offer. The subrecipient must provide FEMA with a signed copy of the *Statement of Voluntary Participation* for each property post-award. Subrecipients may choose to use their own modified version of the *Statement of Voluntary Participation* if it contains all elements of FEMA's *Statement of Voluntary Participation* and with prior approval from FEMA.

Participation is not voluntary for tenants of properties to be acquired and therefore tenants may be entitled to benefits under the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (URA).³⁷⁷ For more information, refer to [Part 12.A.2.7.2](#).

Participation in property acquisition and structure demolition or relocation projects by property owners is voluntary. Prospective participants must be informed in writing that participation in the program is voluntary and that the subapplicant will not use its eminent domain authority to acquire their property for the project purposes if negotiations fail and the property owner(s) chooses not to participate. Documentation of voluntary interest must be signed by each property owner and should be obtained as early in the project development as possible. The documentation must be submitted as specified in [44 CFR § 80.13](#). A notice of voluntary interest can be documented using individually signed statements or a group sign-up sheet. The documentation must include the printed name of property owner(s), property address, contact information and signature of the interested property owner(s) associated with each property, and clear acknowledgment by every property owner of the following language:

This project for open space acquisition is voluntary and neither the *[insert applicant name]* nor the *[insert subapplicant name]* will use its eminent domain authority to acquire the property for open space purposes should negotiations fail and the property owner chooses not to participate.

During project implementation, the subrecipient must execute a more formal *Statement of Voluntary Participation* with the owner(s) of each property identified in the subapplication scope of work.

A.2.3. Statement of Assurances

Subapplications for property acquisition and structure demolition or relocation must include the FEMA [Statement of Assurances for Property Acquisition Projects \(FF-206-FY-22-156\)](#). The FEMA *Statement of Assurances* must be signed by the subapplicant's authorized agent. The *Statement of Assurances* must provide acknowledgment of, and agreement to, the requirements in the *Statement of Assurances*.

³⁷⁷ Public Law 91-646 (Jan. 2, 1971), as amended

Subapplications that do not include a signed *Statement of Assurances* are incomplete and will not be considered for assistance.

The *Statement of Assurances* describes the grants management responsibilities of local communities, including tribes or the qualifying conservation organization receiving grant assistance for acquisition projects. It is submitted with the initial subapplication and can also supplement the state/territory-local or state-tribal agreement. The *Statement of Assurances* includes information specific to acquisitions and must include the following:

- Declaration that the land will be maintained as open space for the conservation of natural floodplain functions, and the land uses will primarily consist of the “generally allowable uses” that are compatible with open spaces as indicated in [44 CFR Part 80](#), the HMA Guide and an official deed restriction of the property.
- Declaration that the local government, tribal government or qualifying conservation organization (subrecipient) will be responsible for all maintenance costs of the property.
- Declaration that the proposed acquisition is consistent with local hazard mitigation, land use and environmental plans, as well as relevant statute, regulations and the HMA Guide.
- Declaration that adjoining property owners will be notified about the acquisition project.

A.2.4. Deed Restriction Language

The subapplication must include a sample of the deed restriction (not including property-specific details) that the subapplicant intends to record with each property deed. The sample must be consistent with the [FEMA Model Deed Restriction \(FF-206-FY-22-157\)](#).

If the subapplicant makes any changes to the language in the *FEMA Model Deed Restriction*, the subapplicant must seek approval from the FEMA Office of Chief Counsel, through their FEMA regional office, for the changes. Changes may be made for compliance with local requirements but changes to substantive program provisions will not be approved.

The subapplicant must follow the procedure described in the previous two paragraphs for open space acquisitions in CBRS units. The subapplication must include a sample of the deed restriction for review and approval by the FEMA Office of Chief Counsel, through the FEMA regional office, to ensure compliance with all deed restriction requirements specific to these areas.

A.2.5. Activities Description and Schedule

As part of the scope of work, all subapplications must include an activities description referencing industry standards or project plans and specifications as well as a schedule for completing the activities.

Once a property is included in an HMA subapplication submitted to FEMA, no demolition work can be initiated prior to project review, approval and award. In addition, no work can be underway at the

time the subapplication is submitted. However, properties where private individuals have demolished damaged structures using private assistance or other non-federal assistance prior to application for HMA are eligible for inclusion in HMA project applications if the demolition is not connected to the project. The demolition costs cannot be included in the project subapplication.

A.2.6. Costs

Allowable costs are costs that are necessary and reasonable for the proper and efficient performance and administration of the federal award. Allowable costs for property acquisition and structure demolition or relocation projects for open space depend on the scope of the project.

Generally allowable costs are listed in [Table 15](#). Other costs will be evaluated on a case-by-case basis.

A shortfall is the difference between the amount the subrecipient pays an owner for a damaged residence and the cost of a comparable replacement home in a non-hazard-prone location if the cost of the replacement home is higher. A shortfall is an allowable cost up to \$31,000 per property.

Table 15: Generally Allowable Costs for Property Acquisition and Structure Demolition or Relocation

Generally Allowable Costs for Property Acquisition and Structure Demolition or Relocation
Both Structure Demolition and Relocation
<ul style="list-style-type: none"> ▪ Market value of the real property (land and structures) either at the time of sale or immediately prior to the most recent disaster or flood event, subject to applicable adjustments, provided state/local laws do not prohibit future improvements and/or require structure demolition. ▪ Removal of demolition debris and household hazardous wastes to an approved landfill (including debris from the demolition of houses, garages, driveways, sidewalks and above-grade concrete slabs). ▪ Abatement of asbestos and/or lead-based paint. ▪ Removal of septic tanks; if not removed, floors and walls must be cracked or crumbled so the tank will not hold water, and the tank must be filled with sand or another clean fill. ▪ Permitted disposal of fuel tanks that support residential use only. ▪ Removal of all structure foundation and basement walls to at least 1 foot below the finish grade of the site. ▪ Filling of basements with compacted clean fill (basement floors must have a minimum 1-foot-diameter hole in the floor to allow for drainage). ▪ Removal of only the trees, if any, that restrict the demolition work on any structure. ▪ Termination of all abandoned utilities at least 2 feet below the finish grade of the site. ▪ Capping of all wells and/or removal of associated components. ▪ Grading, seeding, leveling and site stabilization of all demolition sites. ▪ Fees for necessary appraisals, title searches, title insurance, property inspections, permit fees and surveys. ▪ Property tax liens or tax obligations can be extinguished with proceeds from property sale while performing the transfer of title. ▪ Fees associated with the title transfer, contract review and other costs associated with conducting the real estate settlement, including recordation of the deed and deed restrictions. ▪ Development of an adaptive land management strategy for the purpose of addressing long-term management of the acquired property and developing funding strategies.

Generally Allowable Costs for Property Acquisition and Structure Demolition or Relocation

Structure Demolition Only

- Market value of the real property (land and structures) either at the time of sale or immediately prior to the most recent disaster or flood event, subject to applicable adjustments, provided state/local laws do not prohibit future improvements and/or require structure demolition.
- For land already owned by an eligible entity, compensation is for the structure and for development rights only, not for the land. This includes any entity eligible to apply for award or subaward assistance under the relevant assistance program, even if the entity is not the applicant or subapplicant for the project.
- Removal of demolition debris and household hazardous wastes to an approved landfill (including debris from the demolition of houses, garages, driveways, sidewalks and above-grade concrete slabs).
- Abatement of asbestos and/or lead-based paint.
- Removal of septic tanks; if not removed, floors and walls must be cracked or crumbled so the tank will not hold water, and the tank must be filled with sand or other clean fill.
- Permitted disposal of fuel tanks that support residential use only.
- Removal of all structure foundation and basement walls to at least 1 foot below the finish grade of the site.
- Filling of basements with compacted clean fill (basement floors must have a minimum 1-foot-diameter hole in the floor to allow for drainage).
- Removal of only the trees, if any, that restrict the demolition work on any structure.
- Termination of all abandoned utilities at least 2 feet below the finish grade of the site.
- Capping of all wells and/or removal of associated components.
- Grading, seeding, leveling and site stabilization of all demolition sites.
- Fees for necessary appraisals, title searches, title insurance, property inspections, permit fees and surveys.
- Property tax liens or tax obligations can be extinguished with proceeds from property sale while performing the transfer of title.
- Fees associated with the title transfer, contract review and other costs associated with conducting the real estate settlement, including recordation of the deed and deed restrictions.

Generally Allowable Costs for Property Acquisition and Structure Demolition or Relocation

Structure Relocation Only

- Market value of the real property (land only).
- For land already owned by an eligible entity, compensation is for the development rights. This includes any entity eligible to apply for award or subaward assistance under the relevant assistance program, even if the entity is not the applicant or subapplicant for the project.
- Removal of demolition debris and household hazardous wastes to an approved landfill (including debris from the demolition of attached appurtenances such as porches, decks, skirting, ramps, awnings, garages, driveways, sidewalks and above-grade concrete slabs).
- Abatement of asbestos and/or lead-based paint.
- Removal of septic tanks; if not removed, floors and walls must be cracked or crumbled so the tank will not hold water, and the tank must be filled with sand or other clean fill.
- Permitted disposal of fuel tanks that support residential use only.
- Removal of all structure foundation and basement walls to at least 1 foot below the finish grade of the site.
- Filling of basements with compacted clean fill (basement floors must have a minimum 1-foot-diameter hole in the floor to allow for drainage).
- Removal of only the trees, if any, that restrict the demolition work on any structure.
- Termination of all abandoned utilities at least 2 feet below the finish grade of the site.
- Capping of all wells and/or removal of associated components.
- Grading, leveling and site stabilization of all demolition sites.
- Fees for necessary appraisals, title searches, title insurance, property inspections, plan reviews, permit fees and surveys.
- Property tax liens or tax obligations can be extinguished with proceeds from property sale while performing the transfer of title.
- Fees associated with the title transfer, contract review and other costs associated with conducting the real estate settlement, including recordation of the deed and deed restrictions.
- Jacking and moving the structure to a different site.
- The reasonable cost of disassembling, moving and reassembling any attached appurtenances such as porches, decks, skirting, ramps and awnings.
- Necessary site preparations, including foundation, water, sewer and utility hookups.
- Site restoration and site stabilization of the acquired site.

A.2.6.1. Non-Allowable Costs

Property-related costs that are not allowable under HMA programs include but are not limited to the following:

- Compensation for land that is already held by an eligible entity, even if the eligible entity is not the subapplicant for the project; however, compensation for development rights (e.g., obtaining an open space easement) may be an allowable cost.

- Property acquisition and structure demolition projects where state and/or local laws or ordinances create a legal condition that requires structure demolition and/or prohibits future development of the property (e.g., a coastal setback requirement).
- Remediation, remediation plans, and environmental cleanup and certification of contaminated properties; however, permitted disposal of incidental demolition, household hazardous wastes and fuel tanks that support a residential use only may be an allowable cost.
- Aesthetic improvements and landscaping, new site property acquisition, and public infrastructure and utility development.

A.2.7. Budget

All subapplications must include a line-item breakdown of all anticipated costs.

Subapplicants may apply for subrecipient management costs to cover administrative costs. Management costs must be included in the subapplication budget as a separate line item. More information about the requirements for management costs requests can be found in [Part 13](#).

The final Mitigation Offer to a property owner is based on the value assigned to a property (“purchase offer”) and applicable additions and deductions. Deductions to the purchase offer may include duplication of benefits deductions, and additions may include any supplemental housing or insurance incentive payments. The subrecipient must ensure all property owners are treated fairly and are offered a fair package of benefits. The subrecipient (using a *Statement of Voluntary Participation*) must inform each property owner in writing the market value (pre-event or current) of the property and the method used to determine the final Mitigation Offer.

If several entities or programs are acquiring property in the same area, property owners may find it confusing if different offers are made to area owners at different times. To avoid any negotiation difficulties or confusion, FEMA recommends the subrecipient coordinate the release of property valuation information and purchase offers to property owners for the various programs. The subrecipient may wish to set a time limit with the property owner for the validity of a purchase offer. The subrecipient must provide an appeal or reconsideration process for property owners who dispute the amount of the purchase offer property valuation.

A.2.7.1. Purchase Offer: Value of the Property

For each property identified for acquisition, the subrecipient shall establish and document a property value based on market value, which is defined as:

The amount in cash, or on terms reasonably equivalent to cash, for which in all probability the property would have sold on the effective date of the valuation, after a reasonable exposure time on the open competitive market, from a willing and reasonably knowledgeable seller to a willing and reasonably knowledgeable buyer, with neither acting under any compulsion to buy or sell, giving due consideration to all available economic uses of the property at the time of the valuation.³⁷⁸

The current market value reflects the property value at the time of the final Mitigation Offer. Pre-event market value is defined as the market value of the property immediately before the relevant event that affected the property. For HMGP and HMGP Post Fire, the relevant event for assistance is the major disaster under which assistance is available. For BRIC, the pre-event market value is the value before the most recent major disaster declaration; however, if the project is occurring separately from or more than 12 months after a disaster event, the current market value may be more appropriate. For FMA, the pre-event market value is defined as the property's value immediately before the most recent flood event resulting in an NFIP claim of at least \$5,000.

The benefit of the pre-event market value is available only to owners who owned the property during the event and are nationals of the United States or qualified aliens.³⁷⁹ If the current property owner purchased or took possession of the disaster-damaged property after the major relevant event or is not a national of the United States or qualified alien, the subrecipient may not offer the owner more than the current market value.³⁸⁰

The relevant event may vary under the HMA programs, but the pre-event market value or current market value may be used at the recipient's discretion. The recipient should coordinate with the subrecipient to determine whether the valuation should be based on the pre-event market value or current market value. The current market value may be the most efficient method if no damage has occurred to the property or if a reasonable amount of time has elapsed since the event.

FEMA generally does not include subsurface mineral valuations in the current market value. However, there is no legal or regulatory requirement to exclude those values. Costs associated with surface or subsurface land appraisal are considered part of the overall cost-effectiveness evaluation of any acquisition project.

Typically, property acquisition and structure demolition or relocation projects require the valuation of the property (land and structures as a whole). When an eligible entity already owns the property and wants to deed-restrict it, valuation is for the structure and development rights instead of for the land. Relocation projects require the valuation of land only.

³⁷⁸ As defined by the [Uniform Appraisal Standards for Federal Land Acquisitions](#) (2016).

³⁷⁹ [8 U.S.C. § 1101\(a\)\(22\)](#), [8 U.S.C. § 1641\(b\)](#)

³⁸⁰ [44 CFR § 80.17\(c\)\(3\)](#)

A.2.7.1.1. Valuation Methodology

The following appraisal methodology must be used to determine property value:

- The appraisal must be conducted by an independent appraiser and certified by a responsible official of the recipient or subrecipient as required by the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended, (42 U.S.C. 4601-4655) except as provided in the implementing regulations at [49 CFR part 24](#), “Uniform Relocation Assistance and Real Property Acquisition For Federal And Federally-Assisted Programs” and in accordance with The Appraisal Foundation’s [Uniform Standards of Professional Appraisal Practice](#).
- The appraiser must comply with relevant state laws and requirements and have the appropriate certification, qualifications and competencies based on the type of property being appraised.
- The subrecipient must coordinate with the recipient to determine the assumptions that will be used in the appraisal (i.e., current or pre-event market value), and the assumptions must be applied consistently throughout the project area for all properties to be acquired.
- When determining the value for many structures, the subrecipient may conduct appraisals to establish a statistical sampling of property values and develop an adjustment factor to apply to tax-assessed values so that they reasonably reflect each property’s market value.

Potential deductions from and additions to the purchase offer must also be considered.

A.2.7.1.2. Purchase Offer and Nationality

Before the property owner can receive a pre-event value for the property, the subrecipient must provide certification obtained from the property owner that the property owner is a national of the United States or a qualified alien. For property owners who are not nationals of the United States or qualified aliens, or who refuse to provide certification, the subrecipient will offer no more than the appraised current market value for the property.³⁸¹

Prior to the award or final approval, subrecipients will ask all property acquisition and structure demolition or relocation project participants (property owner(s)) to certify they are a national of the

³⁸¹ “National of the U.S.” is defined in [8 U.S.C. § 1101\(a\)](#) as (A) a citizen of the United States or (B) a person who is not a citizen but who owes permanent allegiance to the United States. “Qualified alien” is defined in [8 U.S.C. § 1641](#) as: [A]n alien who, at the time the alien applies for, receives, or attempts to receive a Federal public benefit, is – (1) an alien who is lawfully admitted for permanent residence under the Immigration and Nationality Act (INA) [\[8 U.S.C. § 1101 et seq.\]](#), (2) an alien who is granted asylum under INA Section 208 [\[8 U.S.C. § 1158\]](#), (3) a refugee who is admitted to the United States under INA Section 207t [\[8 U.S.C. § 1157\]](#), (4) an alien who is paroled into the United States INA Section 212(d)(5) [\[8 U.S.C. § 1182 \(d\)\(5\)\]](#) for a period of at least one year, (5) an alien whose deportation is being withheld under INA Section 243(h) [\[8 U.S.C. § 1253\]](#) (as in effect immediately before the effective date of Section 307 of Division C of Public Law 104-208) or INA Section 241(b)(3)t [\[8 U.S.C. § 1231\(b\)\(3\)\]](#) (as amended by Section 305(a) of Division C of Public Law 104-208), (6) an alien who is granted conditional entry pursuant to INA Section 203(a)(7) [\[8 U.S.C. § 1153 \(a\)\(7\)\]](#) as in effect prior to April 1, 1980; or (7) an alien who is a Cuban and/or Haitian entrant (as defined in [Section 501\(e\)](#) of the Refugee Education Assistance Act of 1980).

United States or a qualified alien. Subrecipients will offer participants who refuse to provide such certification, or who are not national of the United States or qualified aliens, no more than the appraised current market value for their property. Participants who refuse to certify or are not national of the United States or qualified aliens may not receive supplemental housing payments.

For property owners who are seeking pre-event value, subrecipients may use the *Declaration and Release* ([FF-104-FY-21-128](#)) as certification of the nationality of participating property owner(s). At the time of certification, the subrecipient will ask the property owner to show a form of identification (any government-issued identification displaying the signer's name). If the property owner has applied for FEMA disaster assistance, Form 009-0-3 will already be on file at FEMA, and the subrecipient will instead request verification from FEMA through the recipient that a certification is on file.

A.2.7.1.3. Deductions from the Purchase Offer

The recipient, subrecipient and property owner must identify and report any potential duplication of benefits. FEMA may assist with this process if needed, but it is the responsibility of the recipient and subrecipient to validate all duplication of benefits. Refer to the FEMA "[Duplication of Benefits](#)" webpage for more in-depth information. FEMA deducts benefits from other sources from the purchase offer. Repair assistance that has been used for its intended purpose is generally not deducted if documentation of the use is provided.

Examples of when duplication of benefits may occur in a property acquisition and structure demolition or relocation project are as follows:

- The subrecipient offers the full pre-event market value to the property owner, but the property owner cannot provide documentation to demonstrate that assistance such as insurance, loans, repair grants, compensation in compliance with a court order, or other such assistance has been used for its intended purpose. This is because payment of the full pre-event market value compensates the owner for the loss of value that has occurred.
- The subrecipient offers the full pre-event market value to the property owner, but legal claims are appropriate or legal obligations arise in connection to the property that may provide a benefit to the property owner. The parties involved in pending legal disputes must take reasonable steps to recover benefits available to them.
- Relocated tenants receive relocation assistance and rental assistance but have received payments for the same purpose as part of the disaster assistance provided by any agency or payments from any other source. Any acquisition-related assistance provided to tenants must be reduced accordingly. However, tenant-related duplication of benefits deductions do not affect the amounts available to the property owner.

For property valuations based on the pre-event market value, the following procedures can help prevent hazard mitigation assistance from duplicating benefits available from other sources:

- The subrecipient establishes the purchase offer property value as of a certain date.
- The subrecipient provides the recipient with a list of property owners participating in the property acquisition and structure demolition or relocation project as well as a list of tenants who may be affected by the acquisition.
- The recipient and FEMA inform the subrecipient of the amount of repair or replacement assistance available to each property owner and rental or relocation assistance available to tenants. FEMA provides NFIP coverage information to the recipient and subrecipient, including the amount paid on a claim and the amount of coverage available.
- The subrecipient coordinates with property owners who must disclose all assistance received for the same purpose, as described above, including repair or replacement assistance received, all insurance benefits available to them under an existing policy (whether they submitted a claim), and any potential recovery of assistance based on litigation or other legal obligations. The property owner must take reasonable steps to recover such amounts. The subrecipient must coordinate with tenants who must disclose any amounts received from rental or relocation assistance.
- When a property owner receives a Small Business Administration loan for repairs, the property owner must provide proof that loan funds were spent as intended so that they are not deducted as a duplication of benefits. In accordance with Small Business Administration requirements, loans must be repaid at the acquisition closing or rolled over to the new property. When a property owner receives Small Business Administration loan funds to complete a hazard mitigation activity, HMA funds cannot duplicate the purpose covered by the loan, nor can they be used in the form of a grant for loan “swap” or to pay down a Small Business Administration loan.
- The subrecipient identifies any other potential sources of benefits to the subrecipient, property owner or tenant.
- The subrecipient must reduce the purchase offer by the amount of any duplication of benefits. Deductions are not taken for any amounts the owner can verify with receipts that were expended on repairs or cleanup. Subrecipients may not credit property owners for their own labor hours for repair work.
- For insurance payments made for which the purpose is unspecified, property owners may submit an affidavit stating that the unspecified settlement will be used for personal property replacement or documentation from the insurance company specifying the type of losses covered by the previously unspecified settlement. If the property owner submits an affidavit, upon receipt of the affidavit, the recipient and subrecipient will treat the payment as a personal property settlement that is not subject to a duplication of benefits deduction.

A.2.7.1.4. Additions to the Purchase Offer

If the purchase offer for a property is less than the amount the property owner must pay to purchase a comparable replacement dwelling in a non-hazard-prone site in the same community, the recipient and subrecipient may choose to make available to the property owner a supplemental payment of up to \$31,000 that would be applied to the difference. Subrecipients should consider the cost of relocating to a permanent residence that is of comparable value and is functionally equivalent.

For the property owner to receive a supplemental payment, the recipient and subrecipient must demonstrate that the following circumstances exist:

- Assistance cannot be secured from other more appropriate sources, such as housing agencies or voluntary groups.
- Decent, safe and sanitary housing of comparable size and capacity is not available in non-hazard-prone sites within the community at the anticipated acquisition price of the property being vacated.³⁸²
- Participants have certified that they are nationals of the United States or qualified aliens.

The recipient has the option of allowing subrecipients to provide a credit to property owners who have flood insurance. The subrecipient provides an incentive payment that is equal to up to five years of flood insurance premiums actually paid by the current property owner for an NFIP policy for structure coverage. This is applicable to all programs.

A.2.7.2. Tenants

Although the property owner must voluntarily agree to participate in an open space project, participation is not voluntary for residential and business tenants and owners of mobile homes who rent homepads (homepad tenants) and who must relocate because of the acquisition of their housing. Therefore, these tenants are entitled to assistance as required by the URA, as amended.³⁸³ Property owners participating in FEMA-assisted property acquisition and structure demolition or relocation projects are not entitled to relocation benefits because the voluntary program meets URA exceptions.

URA regulations define “tenant” as a person who has the temporary use and occupancy of real property that is owned by another. URA relocation benefits to displaced tenants include moving expenses, replacement housing rental payments and relocation assistance advisory services. Displaced tenants include owners of manufactured homes who lease a pad site. The amount of assistance the subrecipient must pay the tenant is provided in [49 CFR Part 24, Subpart E](#). An eligible displaced tenant is entitled to:

³⁸² [49 CFR § 24.2\(a\)\(8\)](#)

³⁸³ [42 U.S.C. § 4601 et seq.](#)

- Reasonable out-of-pocket (or fixed schedule) moving expenses.
- Compensation for a reasonable increase in rent and utility costs incurred in connection with the relocation in certain circumstances.
- Relocation assistance payments for tenants are intended to ensure these individuals can relocate to decent, safe and sanitary comparable replacement dwellings outside the floodplain or hazard area.

If a tenant chooses to purchase a replacement dwelling, the tenant may apply the amount of rental assistance they would be entitled to toward the down payment. Similarly, if a mobile homeowner who rents a homepad chooses to purchase a replacement pad or lot, the mobile homeowner may apply the amount of rental assistance they would be entitled to toward the down payment.

An alien who is not lawfully present in the U.S. is not eligible to receive URA relocation benefits or relocation advisory services. FEMA may approve exceptions if this results in unusual hardship to the alien's spouse, parent or child who is a U.S. citizen, or an alien admitted for permanent residence. Subrecipients will ask tenants who are potential recipients of URA assistance to certify that they are U.S. citizens or are lawfully present in the U.S. Subrecipients will not provide URA assistance to participants who are not or who refuse to certify that they are U.S. citizens or lawfully present.

Additional instructions for implementing URA requirements can be found in [49 CFR Part 24](#). Subrecipients must coordinate closely with the recipient and FEMA when implementing URA requirements. The state Department of Transportation (DOT) is often a good resource in determining how to calculate the appropriate URA payment because the Federal Highway Administration is the lead federal agency for the URA.

A.2.7.2.1. Rental Increase Payment

A tenant displaced from a dwelling because of a federally assisted property acquisition and structure demolition or relocation project is entitled to a rental increase payment if:

- The tenant rents or purchases and occupies a decent, safe and sanitary replacement dwelling within one year after the date the tenant moves out of the original dwelling.
- The tenant occupied the displacement dwelling for the 90 calendar days preceding the initiation of negotiations for acquisition of the property.

The initiation of negotiations is defined as the first formal indication that the subrecipient wants to purchase a particular property. Any tenant who occupied the dwelling before a disaster event is usually eligible. The exception is if the project negotiations are unrelated to the disaster event or begin so long after the event that it is no longer a relevant factor. If the dwelling is reinhabited after the event, former tenants are generally not eligible. A signed lease is preferable for proving tenancy, but other documentation such as utility bills may be used to prove tenancy if a signed lease is not available because of the disaster event.

Compensation for a rent increase is 42 times the amount that is obtained by subtracting the “base monthly rent” for the displacement dwelling from the monthly rent and average monthly cost of utilities for a comparable replacement dwelling, or the decent, safe and sanitary replacement dwelling now occupied by the displaced person.

The “base monthly rent” for the displacement dwelling is the lesser of the average monthly cost for utilities plus the rent at the displacement dwelling as determined by FEMA, or 30% of the tenant’s average gross household income. The rental increase payment may not exceed a total of \$9,570.³⁸⁴

Subrecipients may exceed the limits identified in the URA in extraordinary circumstances if necessary to ensure a displaced tenant will be able to obtain and retain a comparable unit that is decent, safe and sanitary (as defined at [49 CFR § 24.2\(a\)](#)) outside a high-hazard area. A rental assistance payment may, at the subrecipient’s discretion, be disbursed in a lump sum or installments. If any Department of Housing and Urban Development programs are providing partial assistance for the project, the subrecipient must verify the program requirements to ensure proper coordination with hazard mitigation program requirements.

A.2.7.2.2. Rental Assistance for Homepad Tenants

Mobile homeowners who lease a homepad and who must relocate to a new homepad because of the acquisition of their pre-disaster homepad are entitled to URA relocation benefits and/or replacement housing payments. Payments to mobile homeowners may not duplicate insurance payments or payments made by other federal, state, local or voluntary agencies. Complex situations involving FEMA mobile homes that have been donated to a state or local government and then sold to the mobile homeowner should be directed to the appropriate FEMA regional office for eligibility determination and calculation of benefits.

Displaced mobile homeowners who rent their homepads are entitled to assistance as described below. In some cases, the combination of the two types of URA assistance may exceed URA’s maximum replacement housing differential of \$41,200.³⁸⁵

The displaced mobile homeowner/homepad tenant is entitled to compensation for rental and utility increases resulting from renting a comparable homepad and moving expenses as described in this section. Compensation for homepad rent increase is 42 times the amount obtained by subtracting the “base monthly rent” for the displacement homepad from the monthly rent and the average monthly cost of utilities for a comparable replacement homepad. The rental increase payment may not exceed a total of \$9,570.

Displaced mobile homeowners may also be entitled to replacement housing assistance. For URA purposes, the mobile homeowner is considered to be involuntarily displaced from the residence

³⁸⁴ The amount of the rental increase payment is set forth by the Uniform Relocation Act ([42 U.S.C. § 4624\(a\)](#)) and may be updated periodically by regulation ([49 CFR § 24.402](#)).

³⁸⁵ The amount of the replacement housing payment is set forth by the Uniform Relocation Act ([42 U.S.C. § 4623](#)) and may be updated periodically by regulation ([49 CFR § 24.401](#)).

because of the homepad owner selling the property. In addition, if the mobile home is also purchased, the displaced mobile homeowner is entitled to replacement housing assistance to compensate for their need to find replacement housing. Compensation for mobile home replacement is equivalent to the amount obtained by subtracting the value of the purchased mobile home from the cost of a new replacement mobile home.

In some cases, it may not be possible to secure a comparably located site for a replaced/displaced mobile home; thus, the site on which the home is ultimately placed is called “last resort housing.” The cost to find and/or obtain such a site may exceed the statutory maximum differential replacement housing payment of \$41,200. Last resort housing cases can result when the subapplicant has not adequately planned for the relocation of mobile homepad tenants. If a comparable location for a replacement mobile home cannot be found, the homepad tenant may be eligible for replacement housing payments up to the cost of a traditionally constructed home that is comparably located.

A.2.7.2.3. Requirements for Applications Involving Mobile Homeowners

Subapplicants seeking assistance for mobile home park acquisitions must demonstrate capacity to administer the subaward within the project budget. To demonstrate capacity, the subapplication should include:

- An estimate of the number of mobile homes that will be involuntarily displaced.
- Identification of in-house URA expertise or an estimate of the cost of obtaining URA expertise shown as a line item in the project budget.
- A preliminary relocation analysis discussing whether an adequate stock of potential replacement sites and/or dwellings is available.

A.2.7.2.4. Tenant Businesses

Tenant businesses that are involuntarily relocated because of a FEMA-assisted property acquisition and structure demolition or relocation project are entitled to URA benefits. Assistance provided to a tenant business cannot duplicate payments from insurance or any other source. Thus, Small Business Administration loans and other types of financial assistance received after the disaster must be subtracted from benefits received under the URA. The recipient and subrecipient should seek assistance from the appropriate FEMA regional office in determining benefits for tenant businesses. The state Department of Transportation can be a good resource for determining benefits for tenants because the Federal Highway Administration oversees the applicability of the URA.

A.2.8. Consultation Regarding Other Ongoing Federal Activities

Because properties acquired under HMA programs must be permanently converted to open space and will be unavailable for future development, subapplicants must coordinate with the appropriate

federal agency or agencies in accordance with [44 CFR § 80.13](#) to ensure other federal actions that would affect the parcels under consideration for acquisition for open space are not anticipated.

If other federal activities are planned in the proposed project area, the subapplicant will need to forgo an open space acquisition project and pursue other hazard mitigation project options. If the subapplicant decides to proceed with the acquisition project, the subapplicant must include documentation of their coordination under this section in the subapplication.

Consultation with state DOTs, the U.S. Army Corps of Engineers (USACE) and other federal agencies is discussed below.

A.2.8.1. United States Army Corps of Engineers

The allowed uses of open space that have been created as a result of an acquisition project generally do not include levee systems for flood risk management purposes, and subapplicants will be required to reject consideration of such use if they accept FEMA assistance to convert a property to permanent open space.³⁸⁶ The subapplicant must demonstrate in the subapplication that they have consulted with USACE regarding each subject property's potential future use for the construction of a levee system.³⁸⁷ FEMA will not award assistance for any property without this documentation. This restriction does not generally apply to structures for ecosystem preservation, restoration or enhancement.

If the initial consultation with USACE indicates that there is a potential consideration for a levee in the area, the subapplicant must undertake an expanded consultation with the applicant, FEMA and USACE. FEMA can help assist in this expanded coordination. The consultation will involve the identification and full consideration of future potential land-use conflicts to enable an informed decision regarding how best to proceed.

If, after the consultation, the decision is to pursue a FEMA-assisted property acquisition and structure demolition or relocation project, the subapplication must include an assurance, resolution or equivalent document adopted by the local governing body that indicates the following:

- In consultation with USACE, the local government has identified and considered the future potential use of acquired land for the construction of levees and has chosen to proceed with the acquisition of permanent open space.
- The local government understands that land acquired for open space purposes under the relevant hazard mitigation program will be restricted in perpetuity to open space uses and will be unavailable for any use that is incompatible with the open space and floodplain purposes

³⁸⁶ In the rare circumstances where the Administrator has determined competing federal interests were unavoidable and has analyzed floodplain impacts for compliance with [44 CFR § 60.3](#) or higher standards, the Administrator may find only USACE projects recognized by FEMA in 2000 and 2003 and improvements to pre-existing federal-aid transportation systems to be allowable uses. ([44 CFR § 80.19\(a\)\(ii\)](#)).

³⁸⁷ [44 CFR § 80.13\(b\)](#).

designated for the property. These incompatible uses include the construction of flood damage reduction levees, paved roads, and other development.

A.2.8.2. Departments of Transportation

The subapplicant must demonstrate in the subapplication that they have coordinated with the relevant state Department of Transportation to ensure future plans do not contain any improvements or enhancements to federal aid systems or other state transportation projects that would affect the proposed project area under consideration.³⁸⁸ The construction of such transportation improvements, enhancements or projects on open space land is incompatible with open space uses and is not allowed.

A.2.8.3. Other Federal Agencies

The applicant and subapplicant must demonstrate in the application and subapplication, respectively, that they have consulted with other federal agencies, as appropriate, regarding other program requirements and/or activities and have identified the relationship between the requirements and activities to FEMA hazard mitigation activities and assistance. Other federal agency requirements may apply to hazard mitigation activities if other agency assistance is used for activities related to the project in the community or for matching the hazard mitigation assistance, such as Community Development Block Grant assistance or Community Development Block Grant-Disaster Recovery assistance.

Other federal agency assistance may be used to contribute to the non-federal share of a FEMA-assisted hazard mitigation project if both programs' requirements are met. Refer to [Part 4](#) for more information on federal assistance that is allowed to be used as a non-federal cost share. The applicant is responsible for coordinating with the programs that are available in the state. The coordination should include local program representatives and approaches and schedules. The objective should be to make the process as simple and consistent as possible for subapplicants and property owners.

A.2.8.4. Consultation Regarding Properties in the Coastal Barrier Resources System

For any proposed action that involves the acquisition of a structure for open space purposes that is within or attached to the CBRS, the FEMA regional administrator, as required by Section 6 of the Coastal Barrier Resources Act, consults with the designated representative of the Department of the Interior at the regional level before approving the action.

The request for consultation is in the form of a memorandum to the Interior Department representative that contains the following:

- Identification of the CBRS unit.

³⁸⁸ [44 CFR § 80.13\(b\)](#).

- Description of the structure and the property to be acquired and demolished or relocated, including the identification of the structure as an exception under Section 6 of the Coastal Barrier Resources Act³⁸⁹ and full justification of its status as an exception.
- Amount of proposed federal assistance.
- Any additional required hazard mitigation measures.
- A determination of the action’s consistency with the purposes of the Coastal Barrier Resources Act, in accordance with [44 CFR § 206.349](#).

Pursuant to FEMA’s understanding with the Interior Department, the Interior Department representative provides technical information, an opinion on whether the proposed action meets the criteria for the Coastal Barrier Resources Act exception, and an opinion on whether the action is consistent with the purposes of the Coastal Barrier Resources Act if consistency is required. The Interior Department is expected to respond in a timely manner from the date of the FEMA request for consultation. If a timely written response is not received, the FEMA regional administrator will contact the Interior Department representative to determine whether the consultation request was received.

When the regional Interior Department representative’s opinion is that the proposed action should not be taken and the issue cannot be resolved at the regional level, the FEMA regional administrator submits the issue to the Director of the Office of Environmental Planning and Historic Preservation and the Hazard Mitigation Directorate for review. Consultation is accomplished at FEMA headquarters with the Interior Department consultation officer, the Office of Environmental Planning and Historic Preservation, and the Hazard Mitigation Directorate in coordination with the FEMA Office of Chief Counsel. The Director of the Office of Environmental Planning and Historic Preservation and the Hazard Mitigation Directorate then approves or does not approve the proposed action.

A.3. Property Acquisition: Subaward Implementation

Section 1231 of the [Disaster Recovery Reform Act of 2018](#)³⁹⁰ specifies that within 60 calendar days of the award, the recipient’s hazard mitigation officer or designated representative provides notification to each affected unit of local government with detailed information on the subrecipient’s approved acquisition projects. The notification must include the following:

- The location and address of the acquisition property.
- A description of the acquisition project (i.e., latitude/longitude coordinates to the nearest sixth decimal place, a legal description and other identifying characteristics).

³⁸⁹ [16 U.S.C. § 3505](#)

³⁹⁰ [Public Law 115-254](#) (Oct. 5, 2018)

- A copy of the [FEMA Model Deed Restriction](#) restrictions for acquired properties.
- The state/territory-local or state-tribal grant assistance agreement.

A.3.1. Relocation and Removal of Existing Buildings

Existing buildings that are part of a property acquisition and structure demolition or relocation project must be removed and disposed of in accordance with applicable laws within 90 calendar days of closing and settlement of the property acquisition transaction. The recipient and subrecipient are responsible for the removal and disposal.

Even if numerous properties are purchased on different dates, the recipient and subrecipient are still responsible for structure disposal or removal within 90 calendar days of settlement for each property. The FEMA regional administrator may grant an exception for multiple properties in a single project when the properties are individually identified, and the need for an exception is justified in accordance with the regulations.³⁹¹ The recipient must submit a written request to the regional administrator stating the justification for additional time (that will extend beyond the 90-day time limit) for demolishing or relocating any structure, including a specific date for removal.

All relocated structures in open space acquisition and relocation projects must be placed on a site outside (1) an SFHA, (2) any regulatory erosion zones at a distance at least 60 times the average annual erosion rate measured from an appropriate “erosion reference feature,” and (3) any other identified hazard areas. The owner is responsible for ensuring the building is brought into compliance with all applicable laws and regulations.

Existing buildings that are part of a property acquisition and structure demolition project must be demolished (resulting in the permanent destruction of each structure) and disposed of in accordance with applicable laws.

After a disaster, the demolition and debris removal of acquired structures may be eligible for reimbursement under the FEMA Public Assistance program if the structures represent a health and safety hazard because of the disaster. States/recipients and subrecipients should coordinate with the appropriate FEMA regional office to determine whether these costs are eligible under the Public Assistance program. If the demolition costs do not qualify for Public Assistance, they are eligible project costs under the relevant hazard mitigation program if submitted as part of a project subapplication. If any parts of the structure are sold for salvage value, the total cost of the project will be reduced by the salvage value before cost shares are calculated.

³⁹¹ [44 CFR § 80.17\(d\)](#)

A.3.2. Budget and Scope of Work Changes

Recipients are required to report deviations from budget, project scope or objectives in accordance with [Part 8](#). Recipients must request prior written approvals from FEMA for certain budget and program plan revisions.³⁹²

If the final design is not complete prior to award, once the project is awarded, the design must be finalized by a licensed design professional. Any changes to the scope of work or budget because of completing the final design or to address permitting requirements must be consistent with [Part 8](#). Construction design activities are defined as construction activities for budgeting and scope of work purposes.

A.4. Property Acquisition: Closeout

Recipient and subrecipients must closeout projects in a timely manner consistent with [Part 9](#).

At the completion of the award/subaward activity, FEMA and the recipient shall verify that all required subaward activities have been accomplished in accordance with all program guidance and proper grants management practices and [44 CFR § 80.21](#), that all properties identified in the subapplication have been acquired, and that the [FEMA Model Deed Restriction \(FF-206-FY-22-157\)](#) language was recorded with each corresponding deed.

The subrecipient shall provide to FEMA, through the recipient, the following property information:

- Photograph(s) of the property site after project was completed.
- A copy of the recorded deed that includes *FEMA Model Deed Restriction* language for each property.
- Latitude and longitude of each property given to the nearest sixth decimal place.
- A signed *Statement of Voluntary Participation* from the owner(s) of each property identified in the subaward scope of work.
- Description of how pre-event market value was determined, if applicable.
- Documentation of duplication of benefits review.
- Date structure was removed from property (this must be 90 calendar days from date of settlement).

³⁹² [2 CFR § 200.308](#)

- Update of the property site information in the respective HMA electronic system database for each structure, noting if the property was mitigated, the closing date, and the amount paid to the homeowner(s).
- For relocation projects, a certificate of occupancy from the local government agency or building department for each relocated structure to certify that the structure is code compliant.
- For FMA only, documentation that the property owner-maintained flood insurance until the property was sold.

HMA Grant Closeout Field Guides and Closeout Checklists can be found on FEMA's "[HMA Monitoring and Closeout Guidance](#)" webpage.

A.5. Property Acquisition: Post Closeout Disposition and Reporting Requirements

The recipient will work with subrecipients to ensure the property is maintained in accordance with land-use restrictions. The recipient and subrecipients must jointly monitor and inspect acquired properties every three years, based on the recipient's three-year reporting cycle, to ensure the inspected parcels continue to be used for allowable open space purposes. Subrecipients cannot include long-term monitoring costs in their project application. Costs outside the period of performance are not eligible, except for closeout-related management costs.

Every three years, the subrecipient, the recipient and FEMA must coordinate to ensure the subrecipient submits documentation to the appropriate FEMA regional administrator certifying that the subrecipient has inspected the subject property within the month preceding the report and that the property continues to be maintained consistent with the provisions of the award/subaward. If the property subsequently transfers to an allowable transferee, the subrecipient, the recipient and FEMA will coordinate with that entity to submit the information.

The recipient, subrecipient and FEMA have the right to enter the parcel, with notice, to inspect the property to ensure compliance with land-use restrictions. Subrecipients may identify the open space nature of the property on local tax maps to assist with monitoring.

A.5.1. Post-acquisition Land Use

Once the land is acquired and designated as open space, FEMA must review the subrecipient's proposed change in land use, unless the changed use is grading and seeding of the original building site.

Uses that require review include but are not limited to:

- Establishing an encumbrance or easement (such as a utility easement or mineral rights lease).³⁹³ FEMA may approve requests for post-acquisition use that will encumber previously acquired properties with leases or other instruments allowing for subsurface hydraulic fracturing and horizontal directional drilling activities. However, surface activities and related appurtenances, equipment and/or wastewater disposal associated with hydraulic fracturing are not uses compatible with open space and are not allowed on the acquired parcel.
- Building any kind of structure or other development on the site (e.g., grading outside the building footprint, dredging, mining, filling, paving, excavation or removal of vegetation, and planting).³⁹⁴
- Storing equipment and materials.

As part of the subrecipient's proposed change in land use, the subrecipient must submit a written request to the recipient for review. The recipient must review the request to verify the land use follows all open space requirements and should coordinate with the subrecipient to ensure all necessary information is provided. The recipient must forward the request to FEMA for review together with a recommendation whether the recipient considers the land use is allowable. FEMA will review the information submitted and verify program requirements have been met. FEMA will review the request and notify the recipient of their determination.

A.5.2. Non-Allowable Land Uses of Open Space

Land uses that are generally not allowable include:

- Surface activities associated with hydraulic fracturing that obstruct the floodplain and/or impact flood risk, which include but are not limited to the well bore mouth, well head, well pad, drilling site, storage facility, transport equipment and wastewater disposal such as injection wells, evaporation ponds and discharge into surface water.
- Walled buildings or manufactured homes, except public restrooms (reuse of pre-existing structures is not allowed unless all walls are removed).
- Installation of septic systems or reuse of pre-existing septic systems except to service a permissible restroom.
- Fences and all other obstructions in the floodway; fences outside the floodway must be designed to minimize trapping debris.
- Flood risk reduction structures, such as levees, dikes or floodwalls.
- Paved roads, highways, bridges and paved parking areas that include asphalt, concrete, oil-treated soil or other material that inhibits floodplain functions.

³⁹³ [44 CFR § 80.19\(b\)](#)

³⁹⁴ [44 CFR § 80.19\(a\)\(2\)](#)

- Storage of inventory supporting a commercial operation or governmental facility, including wheeled vehicles or movable equipment.
- Cemeteries, landfills, storage of any hazardous or toxic materials, or other uses that are considered environmentally contaminating, dangerous or a safety hazard.
- Actions that pose health, safety or environmental risk in the floodplain.
- Aboveground or underground pumping stations or storage tanks.
- Placement of fill materials except where necessary to avoid affecting on-site archaeological resources.
- Other uses that obstruct the natural and beneficial use of the floodplain.
- Long-term human habitation.

A.5.2.1. Non-Allowable Uses of Open Space in the Coastal Barrier Resources System

For projects in CBRS units, the following land uses of acquired open space are generally not allowed:

- Any use FEMA determines is inconsistent with the allowable land uses identified above.
- Any uses determined by the recipient and/or FEMA as inconsistent with the regulations, the HMA Guide or deed restrictions.
- Paved surfaces.

Communities may creatively salvage pre-existing structures on the acquired property. In some cases, the complete demolition of a structure may not be necessary—converting a closed-in structure with walls, such as a house, into an open picnic pavilion with a concrete slab floor and posts supporting the roof is possible.

A.5.3. Subsequent Transfer of a Property Interest

For post-federal award, the subrecipient may transfer a property interest only with the prior approval of the appropriate FEMA regional administrator and only to certain entities in accordance with [44 CFR § 80.19\(b\)](#) and the HMA Guide.

After acquiring the property interest, the subrecipient, including successors in interest, may convey any interest in the property only if the appropriate FEMA regional administrator, through the recipient, gives prior written approval of the transferee. The transferee must be another public entity or a qualified conservation organization. Property transfer to private citizens and corporations will not be approved. A qualified conservation organization is an organization whose purpose has been conservation for at least two years before the opening of the application period that resulted in the transfer of the property interest to the subrecipient, pursuant to Section 170(h)(3) and (4) of the

[Internal Revenue Code of 1954](#),³⁹⁵ and the applicable implementing regulations. The transferee must document its status as a qualified conservation organization where applicable.

Any request to convey an interest in the property must include a signed statement that contains documentation of the following:

- The proposed transferee acknowledges and agrees to be bound by the terms of the original hazard mitigation award/subaward conveyance according to [44 CFR Part 80](#) and the HMA Guide.
- Reference and incorporation of the original deed restrictions providing notice of the conditions in this section.
- Incorporation of a provision for the property interest to revert to the subrecipient or recipient in the event the transferee ceases to exist or loses its eligible status as defined under this section.³⁹⁶

The subrecipient may convey an easement or lease to a private individual or entity for purposes that are compatible with the uses described in [44 CFR § 80.19](#) and the HMA Guide with prior approval of the appropriate FEMA regional administrator and as long as the conveyance does not include authority to control and enforce the terms and conditions identified above. The FEMA regional administrator may choose to consult with the FEMA Office of Chief Counsel in reviewing documents proposed to convey an interest in the property. Any lease or easement must be for uses that are compatible with open space purposes and is clearly subject to the land use and other restrictions of the property by reference and/or incorporation of the recorded deed restriction language.

A.6. Property Acquisition for Open Space: Resources



Property Acquisition for Open Space Resources

- *Acquisition and Demolition Application Overview:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-acquisition-demolition-application-overview.pdf
- *Acquisition and Demolition Application Instructions:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-acquisition-demolition-application-instructions.pdf
- *Acquisition and Demolition, Application Example Document:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-acquisition-demolition-application-example.pdf

³⁹⁵ Public Law 591, Chapter 736 (Aug. 16, 1954), as amended

³⁹⁶ [44 CFR § 80.19](#)

- *Acquisition Technical Review* job aid:
https://www.fema.gov/sites/default/files/documents/fema_technical-job-aid-acquisition.pdf
- *Acquisition-Demolition, Information Required for Environmental Review*:
https://www.fema.gov/sites/default/files/documents/fema_ehp-acquisition-demolition-job-aid.pdf
- *FEMA Model Deed Restriction*:
https://www.fema.gov/sites/default/files/documents/fema_model-deed-form-206-fy22-157.pdf
- FEMA BCA Toolkit: <https://www.fema.gov/grants/guidance-tools/benefit-cost-analysis>
- FEMA BCA: <https://www.fema.gov/grants/guidance-tools/benefit-cost-analysis>
- FEMA EHP review job aids: <https://www.fema.gov/grants/mitigation/job-aids> (search “technical review”)
- ASTM International Standard: <https://www.astm.org/Standards/E2247.htm>
- *FEMA Statement of Voluntary Participation*:
https://www.fema.gov/sites/default/files/documents/fema_form-ff-206-fy-21-124.pdf
- *FEMA Declaration and Release*:
https://www.fema.gov/sites/default/files/documents/fema_form_ff-104-fy-21-128-declaration-and-release-form.pdf
- HMA Tool for Identifying Duplication of Benefits:
<https://www.hsd1.org/c/abstract/?docid=729185>
- U.S. Fish and Wildlife Service Coastal Barrier Resources Act Project Consultation:
<https://www.fws.gov/cbra/Consultations.html>

B. Mitigation Reconstruction

Mitigation reconstruction is the construction of an improved, elevated structure on the same site where an existing structure and/or foundation has been partially or completely demolished or destroyed. These projects include either total or partial demolition of the structure and result in the construction of code-compliant and hazard-resistant structures on elevated foundation systems. Mitigation reconstruction projects are not allowed in the regulatory floodway or Coastal High Hazard Area (Zones V, VE and V1-V30 on FIRMs). Mitigation reconstruction projects must be designed using the best available data, including Base Flood Elevations, if available. Activities that result in the construction of new living space at or above the Base Flood Elevation will be considered only when consistent with the mitigation reconstruction requirements.

B.1. Mitigation Reconstruction: Eligibility

Mitigation reconstruction projects are eligible under HMGP, HMGP Post Fire, BRIC and FMA. Mitigation reconstruction projects cannot be combined with other activity types in the same project subapplication to ensure the subapplication scope, schedule and budget adhere to program requirements.

B.1.1. Eligible Activities

Eligible activity categories under HMGP, HMGP Post Fire, BRIC and FMA are summarized in [Table 16](#).

Eligible mitigation reconstruction costs are limited to a \$220,000 federal share per structure. Some eligible activities, such as administrative allowances and permitting allowances, permitting fees and accessible facilities or ramps compliant with applicable accessibility standards³⁹⁷ when required or requested by the owner, do not need to be included in the \$220,000 maximum federal share.³⁹⁸ Required accessibility standards may include construction of ADA-compliant access facilities or ramps when an owner or a member of the owner's family has a permanent disability and a physician's written certification. An ADA-compliant access to ingress/egress is allowable for assistance unless specified otherwise in applicable state or local codes. If ramps are not technically feasible, a mechanical chair lift may be installed.

The activities that are eligible as part of a federal award in mitigation reconstruction are divided into three categories: consultation and project scoping, pre-construction activities, and construction activities. The activities in each category that are eligible to the extent reasonable and necessary to perform the project purpose and their assistance limits are identified in [Table 17](#).

³⁹⁷ Public Law 101-336 (July 26, 1990), as amended, [42 U.S.C. § 12101](#).

³⁹⁸ The applicable accessibility standard may depend on whether the structure is a government or public facility or a private dwelling. If applicable, the ADA Accessibility Standards and/or Architectural Barriers (ABA) Act Accessibility Standards would apply, although ADA and ABA standards are substantially the same. See [U.S. Access Board, The Architectural Barriers Act](#). If no standards apply, accessibility features should conform with the ADA Accessibility Standards unless stated otherwise in state or local codes.

Mitigation reconstruction projects include either total or partial demolition of the site. All demolition debris shall be removed and taken to an approved landfill. The following must be considered during demolition:

- Asbestos and lead-based paint must be dealt with appropriately.
- Existing associated structures, garages and above-grade concrete slabs must be removed.
- Abandoned septic tanks, if not removed, must be emptied and the floors and walls must be cracked or crumbled to prevent the tank from holding water. The tank must be filled with sand or another clean fill.
- All foundation and basement walls not included in the project footprint shall be removed to at least one foot below the finished grade of the site or as necessary to construct the new foundations.
- All basements not included in the mitigation reconstruction project footprint shall be filled with compacted clean fill. Prior to filling, basement floors should be provided with a minimum 1-foot-diameter hole in the floor to allow for drainage.
- Only trees that restrict the mitigation reconstruction work on any structure may be removed.
- Any abandoned utilities shall be terminated at least 2 feet below the finished grade of the site.
- Any abandoned wells shall be capped, and associated components removed.
- All disturbed areas must be graded and leveled; the top 12 inches of soil should be capable of supporting vegetation in areas not included in the reconstructed footprint.

Table 16: Eligible Mitigation Reconstruction Activities

Activity	HMGP	HMGP Post Fire	BRIC	FMA
Project scoping	Yes	Yes	Yes	Yes
Pre-construction activities	Yes	Yes	Yes	Yes
Construction activities	Yes	Yes	Yes	Yes
▪ Structural shell	Yes	Yes	Yes	Yes
▪ Interior partitioning	Yes	Yes	Yes	Yes
▪ Utility equipment	Yes	Yes	Yes	Yes
▪ Fixtures	Yes	Yes	Yes	Yes
Demolition and removal activities	Yes	Yes	Yes	Yes

Table 17: Eligible Mitigation Reconstruction Activities and Assistance Limits

Activity	Subject to Federal Share Assistance Limit of \$220,000
Project scoping	
Structure verification (e.g., size of pre-existing structure)	No
Preliminary elevation determination	No
Phase I environmental site assessment	No
Engineering feasibility study (e.g., Can an existing structure be elevated? Is mitigation reconstruction feasible?)	No
BCA	No
Title search (e.g., ownership verification)	No
Pre-construction activities	
Site survey (i.e., boundaries, elevation)	No
Soils/geotechnical testing; testing for asbestos and lead-based paint	No
Archaeological assessment Phase I	No
Local, state and federal permitting (e.g., EHP and USACE)	No
Architectural/engineering design/plans/specifications	No
Plan review	No
Construction activities	
Permitted disposal of routine asbestos, lead-based paint and household hazardous wastes incidental to demolition	No
EHP mitigation as required as a special award condition	No
Demolition/removal	Yes
Erosion control/grading/drainage	Yes
Utility connections	Yes
Landscaping for site stabilization (e.g., seeding)	Yes
Walkways and driveways not required to meet accessibility standards	Yes
Elevated foundation construction	Yes

Activity	Subject to Federal Share Assistance Limit of \$220,000
Inspection of foundation system	No
Structural shell	
Framing	Yes
Exterior doors	Yes
Windows (includes protection)	Yes
Access/egress	Yes
Exterior cladding	Yes
Roofing	Yes
Interior partitioning	
Drywall	Yes
Trim	Yes
Painting	Yes
Interior doors	Yes
Insulation	Yes
Utility equipment	
Heating, ventilation and air conditioning	Yes
Water/wastewater plumbing	Yes
Electrical panel and wiring	Yes
Hot water heater	Yes
Fixtures	
Sinks/toilets/showers	Yes
Lighting	Yes
Cabinets and countertops	Yes
Flooring	Yes
Building inspections	No
Certificate of occupancy	No
Final Elevation Certificate (FF-206-FY-22-152)	No

Activity	Subject to Federal Share Assistance Limit of \$220,000
Owner displacement costs	No
Tenant displacement costs	No
Prepare and record flood insurance requirement (after construction finalized)	No

B.1.2. Ineligible Activities

Some mitigation reconstruction activities and their associated costs are not eligible. Ineligible costs include but are not limited to the following:

- Landscaping for ornamentation (e.g., trees, shrubs).
- Decks and garages not included as part of the foundation system.
- All construction activities not specifically noted in the HMA Guide and not specifically approved by FEMA in advance.
- Site remediation of hazardous materials.

A general list of ineligible activities is included in [Part 4](#).

B.1.3. Cost Effectiveness

Applicants and subapplicants must demonstrate that hazard mitigation projects are cost-effective. Projects must be consistent with [Part 5](#).

Mitigation reconstruction projects in the SFHA may use the pre-calculated benefits value for elevations. For details on this pre-calculated benefit, refer to [C.1.4.1](#). For up-to-date information on the dollar value of the pre-calculated benefit, refer to FEMA's "[How to Complete a Streamlined BCA](#)" webpage.

FEMA limits the federal cost share of mitigation reconstruction project to \$220,000 per structure. However, the costs captured in the BCA must reflect the total project cost required to complete the hazard mitigation activity, not just the federal share.

B.1.4. Feasibility and Effectiveness

Projects must be consistent with [Part 4](#). Hazard mitigation projects funded by HMA programs must be both feasible and effective at mitigating the risks of the hazard(s) for which the project was designed. A project's feasibility is demonstrated through conformance with accepted engineering practices, established codes, standards, modeling techniques or best practices.

B.1.4.1. Codes and Standards

All mitigation reconstruction activities must be designed and constructed to at least the minimum standard of the latest published editions of the International Codes.

FEMA will use the latest published edition of [American Society of Civil Engineers \(ASCE\)/Structural Engineering Institute \(SEI\) Standard 24, *Flood Resistant Design and Construction*](#) (referred to as ASCE 24), or its equivalent, as the minimum design criteria for all HMA-assisted mitigation reconstruction projects in flood hazard areas. These flood hazard areas include floodways, coastal high-hazard areas and other high-risk flood hazard areas such as alluvial fans, flash flood areas, mudslide areas, erosion-prone areas and high-velocity areas. ASCE 24 addresses design and construction requirements for new buildings and Substantial Improvements to existing buildings (including repair of substantial damage) located, in whole or in part, in flood hazard area. ASCE 24 sets forth requirements for elevation, foundation designs, enclosures below elevated buildings, materials, wet and dry floodproofing, utility installations, building access and miscellaneous structures (e.g., decks, porches, patios, garages, chimneys and fireplaces, pools and above- and belowground storage tanks).

In addition, all mitigation reconstruction projects in flood hazard areas must comply with local floodplain regulations and be permitted by the local floodplain administrator. All other applicable state and federal permits must also be obtained.³⁹⁹

ASCE/SEI24 applies to both new construction and substantial improvements.

The height to which a foundation can be constructed is a key factor in determining feasibility. Assistance in evaluating flood mitigation techniques can be found in [FEMA 551, *Selecting Appropriate Mitigation Measures for Floodprone Structures*](#) (March 2007). All proposed hazard mitigation measures in FEMA 551 must be consistent with other HMA program criteria, such as eligible activities.

FEMA developed guidance for designing appropriate foundations based on the requirements of the International Codes and other applicable coastal construction standards. That guidance is included in [FEMA P-550, *Recommended Residential Construction for Coastal Areas: Building on Strong and Safe Foundations, Second Edition*](#) (Dec. 2009), which also includes sample foundation design calculations and drawings and detailed descriptions of the considerations for determining the feasibility of constructing to the required height. Although FEMA P-550 was developed in response to reconstruction needs after Hurricane Katrina, the design solutions can be used in coastal and non-coastal flood zones. FEMA P-550 recommends that users choose the appropriate foundation by following the Foundation Selection Decision Tree and that the sample designs be used for a maximum height of 8 feet for a closed foundation and up to 15 feet for an open foundation. A licensed design professional should be consulted to determine feasibility for residential structures with required foundation heights that are greater than 15 feet.

³⁹⁹ [44 CFR § 60.3](#)

Mitigation reconstruction projects must be designed and constructed to at least the minimum standard as established by the requirements of the latest published editions of the International Codes. Structures, including all parts and appurtenances, must be designed and constructed to safely support all loads, including dead loads, live loads, roof loads, floor loads, wind loads, flood loads, snow loads, seismic loads and combinations of loads expected to be imposed on the structure as defined in the codes and related documents referenced in the codes. The construction of structures must result in a system that provides a complete load path capable of transferring all loads from the point of origin through load-resisting elements to the soils supporting the foundations.

One- and two-family dwellings must be designed and constructed to meet, at a minimum, the minimum standards of the latest published editions of the International Code Council (ICC) [International Residential Code](#) and ASCE 24 or its equivalent. The standards include ICC [Appendix G to the International Building Code \(IBC\)](#), *Flood Resistant Construction*, for all occupancies including residential, commercial and other occupancies. The latest published editions of the International Codes will be the acceptable requirement if the jurisdiction has not adopted a consensus-based code or if the adopted code is older than the latest published editions of the applicable International Codes.

Multi-family dwellings must be designed and constructed to meet, at a minimum, the requirements of the latest published editions of the International Codes. These codes are the minimum applicable requirement until and unless a subsequent edition of that code is adopted by the governing jurisdiction. For purposes of this program, the absence of an adopted building code in a participating jurisdiction or a jurisdiction's use of a building code that does not meet the International Codes' requirements will not relieve the subapplicant from meeting the minimum design and construction requirements.

Installation of manufactured homes must follow regulations and guidance provided by the Department of Housing and Urban Development and the state administering agency. FEMA provides additional guidance, including recommended prescriptive pre-engineered foundation design in [FEMA P-85](#), *Protecting Manufactured Homes from Floods and Other Hazards, Second Edition* (Nov. 2009). FEMA P-85 provides a best-practices approach in reducing damage from natural hazards.

Project construction documents, including design drawings and specifications, must be signed and sealed by a design professional licensed in the state the project is to be constructed in. The documents must also be certified for compliance with the codes, standards and minimum construction requirements specified in the HMA Guide. Construction documents must be produced prior to the start of construction but are not required for submittal as part of an application. The construction documents must include a statement from a design professional (i.e., a licensed architect or licensed professional engineer in the state the project is located in) that the design meets or exceeds the applicable latest published editions of the International Codes. Construction documents based on standard details developed by a manufacturer or material supplier, including framing members, framing connections and roofing, and siding or appurtenance fasteners must be signed and sealed by a design professional licensed in the state the project is constructed in.

B.1.5. Environmental and Historic Preservation

All subapplications submitted to FEMA must meet the EHP criteria in [Part 4](#). All subapplications must provide the information described in [Part 6](#) so that FEMA may perform the EHP review.

The [Mitigation Reconstruction-Required Information for EHP Review](#) FEMA job aid lists the documentation needed for projects for FEMA to complete the EHP compliance review process.

B.1.6. National Flood Insurance Program Eligibility Requirements

Hazard mitigation projects sited within the SFHA are eligible only if the jurisdiction is participating in the NFIP. For FMA only, all properties included in a subapplication for mitigation reconstruction assistance must be NFIP-insured at the time of the opening of the application period. The flood insurance policy must be maintained throughout the period of performance and for the life of the structure. For more information, refer to [Part 4.I](#).

B.1.7. Special Flood Hazard Area Requirements

For structures in the SFHA at the completion of the project and all structures receiving FMA regardless of location in the SFHA, flood insurance must be maintained for the life of the property.⁴⁰⁰ For more information, refer to [Part 4.I](#).

B.2. Mitigation Reconstruction: Application and Submission Information

All subapplications submitted to FEMA must meet the eligibility criteria in [Part 4](#). All subapplications must have a scoping narrative in accordance with [Part 6](#). Project-specific criteria are highlighted below.

FEMA may request additional information after the subapplication has been submitted to ensure all necessary information is received. However, all information required by the regulations and the HMA Guide must be received before an assistance decision and award or final approval can be made.

For mitigation reconstruction projects, the subapplication must include the following:

- In the hazard mitigation activity section of the subapplication, an explanation of why the subapplicant has chosen mitigation reconstruction instead of the other available activity types.
- Latitude/longitude to the nearest sixth decimal place, site photographs, site maps, and project plans and specifications with the location of the structure clearly labeled on a FIRM.
- An activities description (as part of the scope of work) referencing industry standards or project plans and specifications.

⁴⁰⁰ [42 U.S.C. § 4012a\(a\)](#)

B.2.1. Activities Description

The activities description in the scope of work for mitigation reconstruction projects is expected to include the following general construction-related activities:

- Pre-construction.
- Site preparation.
- Foundation construction.
- Structural shell construction.
- Interior finishes.
- Construction completion.

The activities are discussed further in [Part 6](#).

In developing the mitigation reconstruction scope of work, the subapplicant should consider health issues involved with working with asbestos, mold and lead-based paint.

The subapplicant should document whether the structure can be safely elevated with a low likelihood of collapse or disintegration during the process and if there is the need for a licensed engineer or architect to ensure structure elevation is possible.

The square footage of a resulting structure must be no more than 10% greater than that of the original structure. Breezeways, decks, garages and other appurtenances are not considered part of the original square footage unless situated on the original foundation system. Original square footage must be documented in the subapplication through copies of tax records or other verifiable means.

To facilitate project development and to ensure all potential costs have been estimated, a conceptual design of proposed activities must be prepared during subapplication development.

B.2.1.1. Mitigation Reconstruction Project Scoping

Project scoping involves identifying and evaluating all aspects of a mitigation reconstruction project from beginning to end. This includes developing detailed project specifications, developing a work plan, and ensuring the project mitigates future damage to the reconstructed structure. During project scoping, consideration should be given to all factors that have the potential to significantly affect project implementation, including work schedule, project location, project cost and project effectiveness.

Although each structure's construction will be designed by a licensed professional as part of the implementation of the project, basic design parameters for each structure must be established during project scoping, including foundation type, required foundation height, flood hazard

conditions, appropriate wind design, project cost and site conditions. To aid potential subapplicants through the project scoping process, FEMA has developed detailed information regarding project budgets (refer to [Part 6](#)).

All reasonable and necessary costs, including anticipated project costs, direct costs associated with project scoping and project review, changes suggested by a licensed design professional, and costs for the pre-construction and construction activities listed in [Table 17](#) are eligible project costs. All costs shall be based on the construction of fundamental, code-compliant structures as related to the codes and standards included or referred to in the HMA Guide.

B.2.1.2. Design Parameters

The primary design parameters that must be considered during project scoping include:

- **Foundation type:** A key consideration for scoping mitigation reconstruction projects is the required type of foundation. The type of foundation for a specific mitigation reconstruction project is based on the location of the structure within a defined flood zone (based on the Base Flood Elevation, Advisory Base Flood Elevation or best available data) and the required height of the proposed structure above adjacent grade. During project scoping, the applicable flood zone or flood hazard area for each structure must be identified in addition to the associated foundation design requirements; this will help subapplicants determine the appropriate foundation type. The type of foundation that is selected affects the type and cost of construction and must be identified prior to subapplication submittal. Assistance in evaluating flood mitigation techniques can be found in FEMA 551. Detailed guidance on foundation designs and design parameters can be found in FEMA P-550.
- **Foundation height:** The required height to which a foundation must be constructed is a key factor in determining feasibility and cost. Assistance in evaluating flood mitigation techniques can be found in FEMA 551. FEMA developed guidance for designing appropriate foundations based on the requirements of the International Codes and other applicable coastal construction standards. That guidance is included in FEMA P-550, which also includes sample foundation design calculations and drawings. In this document, FEMA recommends sample designs and associated height limitations for various foundation types. For residential structures with required foundation heights greater than these limits, a licensed design professional must be consulted to determine feasibility.
- **Wind design considerations:** All mitigation reconstruction activities must be designed and constructed in accordance with at least the minimum standard of the latest published editions of the International Codes, which include required wind design speed for the project location. An additional consideration is the requirement for the installation of shutters or other protective measures in windborne debris regions, defined as hurricane-prone regions located within 1 mile of the coastal mean high-water line where the basic design wind speed is 130 miles per hour (mph) or greater, or in areas where the basic wind design speed is 140 mph or greater, or

Hawaii. During project scoping, projects located in these areas must be identified, and the associated cost of shutters or protective measures must be included in project costs.

- **Seismic considerations:** For purposes of code application, seismic reconstruction of buildings will be considered as new buildings. All mitigation reconstruction activities must be designed and constructed to at least the minimum standard of the latest published editions of the International Codes and with the latest published edition of [ASCE/SEI 7, Minimum Design Loads for Buildings and Other Structures](#), which include the required seismic design for the project location and expected seismic performance for new buildings. During project scoping, projects located within these areas must be identified and the associated cost of seismic design measures or protection must be included in project costs.
- **Project cost:** The requirements and preferences for mitigation reconstruction developed through the parameters described above will significantly affect the proposed activities' cost. Proposed costs must be developed for consideration of mitigation options and completion of the BCA. Detailed guidance on costing procedures is available from the appropriate FEMA regional office. In addition to these specific parameters, other considerations may need to be addressed during project scoping, including:
 - Zoning requirements and other local ordinances.
 - Soil conditions.
 - Site access requirements.
 - EHP considerations.

HMGP, HMGP Post Fire, BRIC and FMA offer assistance for scoping and the development of engineering analyses to determine feasibility under project scoping or advance assistance. For more information, refer to [Part 11.B](#).

B.2.2. Schedule

If increased cost of compliance assistance through a standard flood insurance policy is used as cost-share for a project, policyholders have up to six years from the date of the underlying flood loss to complete the eligible hazard mitigation activity. The increased cost of compliance payment is up to \$30,000; it can be used as the non-federal match for demolition, elevation, relocation and floodproofing of a structure substantially damaged by flooding. Consideration of increased cost of compliance as local cost share should be early in the scoping or project development process.

B.2.3. Budget

All subapplications must include a line-item breakdown of all anticipated costs.

Subapplicants may apply for subrecipient management costs to cover administrative costs. Management costs must be included in the subapplication budget as a separate line item. More information about the requirements for management costs requests can be found in [Part 13](#).

A detailed project budget shall be prepared by or under the supervision of the licensed design professional responsible for project design. Details pertaining to the project budget, such as submittal format, cost ranges, preparation requirements and source documentation are included in [Part 6](#).

Each project requires a project budget as part of the technical and cost-effectiveness evaluation process. The project budget must include all reasonably anticipated project costs, including direct costs associated with project scoping and construction and closeout activities. The project budget should also be based on standard-grade construction.

Federal share assistance will be estimated and obligated on a per-square-foot basis; reimbursement will be in a manner consistent with standard recipient procedures. Based on the foundation type and required elevation height, the applicant or subapplicant must develop a square-foot cost for each potential combination of structure characteristics. All structures of the same type within a subapplication will have costs allocated at the same square-foot rate. Subapplicants will identify the type and number of structures of each possible combination to be included in the proposed project.

For cost-estimating purposes, the breakdown of structure types is based on the following structure and foundation characteristics:

- Structure type:
 - One story.
 - Two story.
- Foundation type:
 - Open foundation.
 - Closed foundation.
- Foundation height:
 - 0 to 5 feet.
 - 5 to 10 feet.
 - 10 to 15 feet.
 - Over 15 feet.

Applicants or subapplicants must provide documentation of all square-foot budgets. Costs must be provided in dollars-per-square-foot format. The costs must be based on the construction of fundamental, code-compliant structures with essential appurtenances as described. This will allow a comparative review of projects of varying types within a region and will ensure reasonable construction costs have been submitted.

B.2.4. Feasibility and Effectiveness Documentation

All subapplications must provide information so FEMA can determine the feasibility and effectiveness of the proposed hazard mitigation activity. Refer to [Part 6](#) for more information.

B.2.5. Environmental and Historic Preservation Documentation

All subapplications submitted to FEMA must meet the EHP criteria in [Part 4](#). All subapplications must provide the information described in [Part 6](#) so that FEMA may perform the EHP review.

B.3. Mitigation Reconstruction: Subaward Implementation

Project implementation includes everything needed to complete the project. Implementation includes the pre-construction activities of plan review and inspection; site preparation; and all construction activities, including building the foundation and structural shell, completing the interior finishes, as well as obtaining all builder certifications.

B.3.1. Pre-Construction Activities

Pre-construction activities for each structure include project design, analysis and permitting required to meet the assistance requirements.

The project design will be performed by or under the direct supervision of a design professional (i.e., a licensed architect or licensed professional engineer in the state the project is located in). The design must include all calculations, analysis and research necessary to determine the forces expected to act on the project structure. The design must account for all attachments and appurtenances. The selected structural framing members must be sufficient to provide a load path for all load-bearing members to transfer design loads to the foundations. The design must also account for the connections required to transfer loads from one member to another in accordance with the design concept.

Assistance in evaluating flood mitigation techniques can be found in FEMA 551. Design and construction techniques for building foundations can be found in FEMA P-550, which describes in detail the considerations for determining the feasibility of constructing to the required height. Although FEMA P-550 was developed in response to the reconstruction needs after Hurricane Katrina, the design solutions provided can be used in both coastal and non-coastal flood zones.

The design process must also include any testing required to establish site-specific design parameters, such as soil borings conducted as part of a geotechnical exploration, to determine foundation requirements.

Prior to construction, each subapplicant must obtain all applicable permits and pay all required permitting fees. Applicable permits are expected to include, but not be limited to:

- Zoning or land use approvals.
- Environmental permits or required certifications.
- Historic preservation approvals.
- Building permits.

B.3.1.1. Plan Review and Inspections

Construction drawings and specifications must be reviewed by the local jurisdiction's building official prior to the start of construction.⁴⁰¹ If the local jurisdiction has not established a building department, the reviews must be conducted by an independent licensed design professional retained by the jurisdiction to conduct such reviews. The reviewing design professional must be licensed in the state in which the project is located. Payment for the reviewing design professional is an allowable cost. Construction inspections must be conducted to verify the project was constructed in full accordance with the approved design and the applicable International Codes. Construction inspections must be conducted by the office of the building official or under the direct supervision of a design professional licensed in the state where the project is located, as applicable.

B.3.1.2. Site Preparation

Site preparation activities include demolition of existing structures, removal and disposal of project debris, site environmental restoration, utility relocation and site grading required as part of the project. The subrecipient must conduct a Phase I environmental site assessment in accordance with the EPA's "all appropriate inquiries" rule and [ASTM E2247](#).⁴⁰² A clean-site certification from the appropriate federal or state agency is required for properties that were subject to remedial, removal, response or corrective actions for hazardous materials. Environmental site remediation costs are not eligible.

B.3.2. Construction Activities

The following information covers the requirements for foundation construction, structural shell construction, interior finishes, construction completion, builder certification and certificate of occupancy.

⁴⁰¹ IBC, Section 104

⁴⁰² [40 CFR Part 312](#)

B.3.2.1. Foundation Construction

Foundation construction activities include installation, monitoring and testing (if required) of foundations supporting the structure. Assistance in evaluating flood mitigation techniques can be found in FEMA 551. Design and construction techniques for building foundations can be found in FEMA P-550. FEMA P-550 describes in detail the considerations for determining the feasibility of constructing to the required height. Although FEMA P-550 was developed in response to the reconstruction needs after Hurricane Katrina, the design solutions provided can be used in both coastal and non-coastal flood zones. Additionally, NFIP Technical Bulletins can be used to meet floodplain management criteria for specific structures or geologic circumstances.

Installation of an open foundation system must be monitored to ensure the foundation elements are installed to the depth and achieve the load capacity specified in the construction documents. Foundation construction monitoring can be conducted by a building official or their designee, the licensed design professional responsible for the project design, or an independent agency.

B.3.2.2. Structural Shell Construction

Structural shell construction activities include all framing, load-carrying elements, attachments and building envelope components above the foundation. Because rough-in installation of electrical, communications, plumbing and mechanical systems may require drilling through or making notches in load-carrying elements, such rough-in work is also part of the structural shell construction activities. Structural shell construction activities must include an inspection of the completed shell prior to interior work covering the framing. The engineering inspection must verify the size, location and materials used in the construction are in conformance with the construction drawings and the applicable International Codes.

The results of an engineering inspection by, or under the direct supervision of, the responsible licensed design professional or an independent agency must be presented in a written report signed and sealed by the licensed design professional in charge of the monitoring. The engineering inspections must be conducted by a building official or their designee. The licensed design professional responsible for the project design may inspect the structure for quality control reasons.

B.3.2.3. Interior Finishes

Interior finish activities include installation of interior walls, flooring, wiring/lighting fixtures, insulation, plumbing and mechanical fixtures, kitchen/bath counters, cabinets, sinks, toilets, tubs/showers, and heating, ventilation, and air conditioning. Inspections of these interior finishes must be conducted in accordance with the requirements of the applicable International Codes.

B.3.2.4. Builder Certification

At a minimum, all work must be performed by contractors licensed or registered in the state where they are working and who maintain appropriate insurance coverage. In addition, contractors must adhere to more stringent local requirements, where applicable.

B.3.2.5. Certificate of Occupancy

Projects assisted under this program shall not be occupied, or the occupancy category changed, without prior issuance of a certificate of occupancy by the governing local jurisdiction. In jurisdictions that have adopted the International Codes, the certificate of occupancy shall be issued only after the building official inspects the structure and finds no violations of the provisions of applicable codes or other laws enforced by the building department, as well as the provisions and requirements of the HMA Guide.

In the absence of an adopted building code in a participating jurisdiction, or the absence of a designated building official, the required inspections shall be conducted by or under the direct supervision of an appropriate design professional licensed in the state where the project is located. In communities that have not adopted the International Codes, the state building commission shall determine the education, training, and experience requirements for inspectors responsible for conducting inspections.

Inspections required prior to the issuance of a certificate of occupancy include but are not limited to the following:

- **Demolition inspection:** Inspections shall be made after all utility connections have been disconnected and secured in such a manner that no unsafe or unsanitary conditions exist on the site during or after demolition operations.
- **Foundation inspection:** Inspections shall be made during foundation construction to verify the foundations have been installed to the depth and capacity specified in the construction documents.
- **Floodplain inspection:** Inspections must be made for properties located in the SFHA upon placement of the lowest floor and prior to subsequent vertical construction. Documentation of the elevation of the lowest floor must be provided by a land surveyor, engineer or architect authorized by law to certify elevation information in the state where the project is located. Handheld global positioning system (commonly known as GPS) -derived ground elevations are not acceptable to meet this requirement. In addition, setbacks and distances from water courses, the regulatory floodway, Zone V and the mapped limit of the 1.5-foot breaking wave zone must be checked prior to construction.
- **Framing inspection:** Inspections must be made after the roof is in place, including all framing and bracing, and after the plumbing, mechanical and electrical rough-ins are complete. The framing inspections must verify framing members are of the type, size and grade indicated on the construction documents and the connections and fasteners have been installed in accordance with the applicable codes and construction documents.
- **Sheathing inspection:** Inspections must be conducted after all roof and wall sheathing and fasteners are complete and, at a minimum, must include inspection of the roof sheathing, wall sheathing, sheathing fasteners and roof/wall dry-in.

- **Final inspection:** A final inspection must be completed to document compliance with all requirements of the International Codes, local floodplain ordinances and any other state or local regulations.

A comprehensive list of all required inspections, permits and certifications is included in the International Codes. Additional information on flood-related inspections, including sample checklists, can be found in the ICC/FEMA [Reducing Flood Losses through the International Codes: Coordinating Building Codes and Floodplain Management Regulations, 5th Edition](#) document (Oct. 2019).

B.3.3. Budget and Scope of Work Changes

Recipients are required to report deviations from budget, project scope or objectives in accordance with [Part 8](#). Recipients must request prior written approvals from FEMA for certain budget and program plan revisions.⁴⁰³

If the final design is not complete prior to award, once the project is awarded, the design must be finalized by a licensed design professional. Any changes to the scope of work or budget because of completing the final design or to address permitting requirements must be consistent with [Part 8](#). Construction design activities are defined as construction activities for budgeting and scope of work purposes.

B.4. Mitigation Reconstruction: Closeout

Recipients and subrecipients must closeout projects in a timely manner consistent with [Part 9](#).

In addition to the typical HMA program closeout processes, closeout of mitigation reconstruction projects generally includes the following:

- A certificate of occupancy and the [Elevation Certificate \(FF-206-FY-22-152\)](#) for each structure in the subaward to certify the structure is code compliant and was elevated to the required elevation. FEMA will use the latest published edition of ASCE 24 or its equivalent as the minimum design criteria.
- A copy of a recorded deed for each structure, including requirements for maintenance and flood insurance requirements.
- A signed [Acknowledgement of Conditions for Properties Using FEMA Hazard Mitigation Assistance \(FF-206-FY-22-158\)](#) form for each structure.
- A certification from a building official or licensed design professional verifying the structure was designed and constructed to at least the minimum standard of the latest published editions of the International Codes, even in locations where no code has been adopted.

⁴⁰³ [2 CFR § 200.308](#)

- A front, rear and side photograph of the final structure, including the date of the photograph, structure address, latitude/longitude to the nearest sixth decimal place, source of photograph and name of the photographer.
- Verification by the recipient that final square footage is within 10% of original structure square footage at the time of closeout.
- Verification of flood insurance for each structure.
- Update of the structure site information in the FEMA electronic application system for each structure.

HMA Grant Closeout Field Guides and Closeout Checklists can be found on FEMA's "[HMA Monitoring and Closeout Guidance](#)" webpage.

B.5. Mitigation Reconstruction: Resources



Mitigation Reconstruction Resources

- FEMA BCA Toolkit: <https://www.fema.gov/grants/guidance-tools/benefit-cost-analysis>
- FEMA BCA webpage: <https://www.fema.gov/grants/guidance-tools/benefit-cost-analysis>
- FEMA EHP review job aids: <https://www.fema.gov/grants/guidance-tools/environmental-historic/preparation-resources>
- FEMA 551, *Selecting Appropriate Mitigation Measures for Floodprone Structures*: https://www.fema.gov/sites/default/files/2020-08/fema_551.pdf
- FEMA P-550, *Recommended Residential Construction for Coastal Areas: Building on Strong and Safe Foundations*: <https://www.fema.gov/emergency-managers/risk-management/building-science/flood>
- Overview of FEMA P-550: https://www.fema.gov/sites/default/files/2020-07/fema550_flyer_052219.pdf
- ASCE 24: <https://ascelibrary.org/doi/book/10.1061/asce24>
- Guidance for Applying ASCE 24 Engineering Standards to HMA Flood Retrofitting and Reconstruction Projects: <https://www.fema.gov/emergency-managers/risk-management/building-science/flood>
- International Residential Code for One- and Two-Family Dwellings: <https://www.iccsafe.org/products-and-services/i-codes/2018-i-codes/irc/>
- National Fire Protection Association 225, Model Manufactured Home Installation Standard: <https://www.nfpa.org/codes-and-standards/all-codes-and-standards/list-of-codes-and-standards/detail?code=225>

- FEMA P-85, *Protecting Manufactured Homes from Floods and Other Hazards*:
https://www.fema.gov/sites/default/files/2020-08/fema_p85.pdf
- NFIP Technical Bulletins: <https://www.fema.gov/emergency-managers/risk-management/building-science/national-flood-insurance-technical-bulletins>
- International Code Council's Reducing Flood Losses through the International Codes:
<https://www.fema.gov/node/reducing-flood-losses-through-international-codes>

C. Structure Elevation

Structure elevation activities generally involve physically raising an existing structure. Structure elevation may be achieved through various methods, including elevating on continuous foundation walls; elevating on open foundations, such as piles, piers, posts or columns; elevating on fill; and converting the second story. Foundations must be designed to properly address all loads and be appropriately connected to the floor structure above. Utilities must also be properly elevated. Buildings proposed for elevation must be structurally sound and capable of being elevated safely.

C.1. Structure Elevation: Eligibility

FEMA requires applicants and subapplicants to design all structure elevation projects in accordance with the NFIP standards in [44 CFR Part 60](#) and the latest published edition of ASCE 24 or its equivalent as minimum design criteria. The scope of work narrative should clearly state the structure elevation will be designed to meet ASCE 24 criteria.

C.1.1. Eligibility Criteria

For a structure to be eligible for elevation, it must be structurally sound and capable of being elevated safely. Elevation projects must raise the lowest floor above the Base Flood Elevation or elevation required by FEMA, local ordinance or design flood elevation, whichever is highest.

In the case of an elevation project in a coastal flood zone, the lowest horizontal structural member must be raised above the Base Flood Elevation or elevation required by FEMA, local ordinance or design flood elevation, whichever is highest.

In cases where a building cannot be elevated, the ground floor living space can be filled in or repurposed and used solely for parking, storage or building access. The existing second floor is converted to the new living space or the roof is removed and additional living space is constructed over the existing living space. This project is called a second-story conversion. For second-story conversion projects, the bottom of the second story must be designed and constructed to at least the minimum standard of the latest published editions of the International Codes or local ordinance or design flood elevation, whichever is highest.

The property owner must voluntarily agree to participate in the elevation program. During the development of an elevation project, property owners are responsible for notifying the subapplicant of their interest in participating in the proposed project. They must provide all the information requested by the subapplicant, and they must finish all the actions required to complete the subapplication and to carry out the structure elevation.

C.1.2. Eligible Activities

[Table 18](#) outlines structure elevation activities eligible under the following programs:

Table 18: Eligible Structure Elevation Activities

<i>Eligible Activities</i>	HMGP	HMGP Post Fire	BRIC	FMA
Elevating on continuous foundation walls	Yes	Yes	Yes	Yes
Elevating on open foundations (e.g., piles, posts, piers)	Yes	Yes	Yes	Yes
Elevating on fill	Yes	Yes	Yes	Yes
Second-story conversion	Yes	Yes	Yes	Yes

C.1.2.1. Design Considerations

Buildings proposed for structure elevation must be structurally sound and capable of being elevated safely. A report of an inspection completed by a qualified professional (e.g., licensed engineer or architect, local building code official) may be used to document the structural soundness. Important design considerations for structure elevations are as follows:

- Elevation projects must meet requirements of the latest published edition of ASCE 24 or its equivalent as minimum design criteria. FEMA also encourages consideration of changes in natural hazard risk when determining the elevation height and may provide assistance for elevations higher than the minimum requirements if they remain cost-effective. Upon completion of the elevation work, an [Elevation Certificate \(FF-206-FY-22-152\)](#) verifying “as-built” elevations must be completed to ensure the structure complies with the local floodplain ordinance and NFIP floodplain management and HMA requirements.
- Sea level change can be applied to projects in any U.S. coastal area where relative sea level change data are available. This includes areas subject to coastal flooding as identified in the current NFIP flood study or coastal rivers and streams located as far inland as the extent of estimated tidal influence or storm surge. When performing structure elevation projects or projects that have freeboard requirements, sea level change estimates should be added, if applicable, to the state or local jurisdiction’s freeboard requirements if those freeboard requirements do not already exceed the projected sea level change during the project’s useful life.
- Elevation projects must be designed and adequately anchored to prevent flotation, collapse and lateral movement of the structure due to hydrodynamic and hydrostatic loads, including the effects of buoyancy. FEMA recommends that an engineer certify that the design elevation will withstand the depth and velocity of 1% annual chance flood events (hydrostatic and hydrodynamic loads), any potential increase in wind load or any other relevant load factors.
- For elevation projects in Zone V with open foundations (piles, piers, posts or columns), the space below the lowest floor must be free of obstructions or constructed with non-supporting

breakaway walls, open wood latticework, or screening intended to collapse under wind and water loads without causing collapse, displacement or other structural damage to the elevated portion of the building or supporting foundation system. Guidance on free-of-obstruction and breakaway wall requirements is available in [FEMA Technical Bulletin 5](#), *Free-of-Obstruction Requirements: For Buildings Located in Coastal High Hazard Areas in Accordance with the National Flood Insurance Program* (March 2020) and [Technical Bulletin 9](#), *Design and Construction Guidance for Breakaway Walls: Below Elevated Located in Coastal High Hazard Areas in Accordance with the National Flood Insurance Program* (Sep. 2021).

- For elevation projects on continuous foundation walls with fully enclosed areas below the lowest floor, the area must be used solely for parking of vehicles, building access or storage.⁴⁰⁴
- Elevation projects on continuous foundation walls must be designed to equalize hydrostatic flood forces on exterior walls automatically by allowing for the entry and exit of floodwaters. Designs to meet these criteria must be certified by a licensed professional engineer or meet or exceed the criteria in [44 CFR § 60.3\(c\)\(5\)](#). Guidance on meeting this requirement can be found in [NFIP Technical Bulletin 1 \(TB-1\)](#), *Requirements for Flood Openings in Foundation Walls and Walls of Enclosures* (March 2020).
- Elevation projects on constructed fill must meet or exceed criteria in [44 CFR § 60.3\(e\)\(6\)](#). Guidance on meeting these criteria can be found in [FEMA Technical Bulletin 10-01](#), *Ensuring That Structures Built on Fill In or Near Special Flood Hazard Areas Are Reasonably Safe from Flooding* (May 2001).
- In Zone A, second-story conversions above the Base Flood Elevation are allowable. These projects involve converting the usage of the ground floor to parking, storage or building access and modifying or replacing the walls; filling below-grade areas and basements; or elevating the building. Additional information about second-story conversions is available in [FEMA P-312](#), *Homeowner's Guide to Retrofitting: Six Ways to Protect Your Home From Flooding 3rd Edition* (June 2014) and the [Second Story Conversion—Elevation Project Design Considerations for Hazard Mitigation Assistance Applicants](#) FEMA fact sheet.
- Elevations of existing slab-on-grade foundations attached to existing buildings must only occur if the slab is certified by a licensed structural engineer to be usable as a structural slab (i.e., reinforced sufficiently to be self-supporting) and meets the design requirements of the latest International Code, ASCE standards, and the American Concrete Institute (ACI) *Building Code Requirements for Structural Concrete (ACI 318) and Commentary on Building Code Requirements for Structural Concrete (ACI 318R)*. If the slab is non-structural in nature, then an alternate foundation elevation method should be considered. Additional information is available in FEMA P-312.

⁴⁰⁴ [44 CFR § 60.3\(c\)\(5\)](#)

C.1.3. Ineligible Activities

Refer to [Part 12.C.2.1.1](#) for specific activities that are considered ineligible for structure elevation projects. A general list of ineligible activities is included in [Part 4](#).

C.1.4. Cost Effectiveness

Applicants and subapplicants must demonstrate that hazard mitigation projects are cost-effective. Projects must be consistent with [Part 5](#).

FEMA will fund hazard mitigation projects that include sea level change estimates. To incorporate these considerations in the development of a BCA, recipients and subrecipients should add the estimated sea level change to the current 10%, 4%, 2% and 1% annual chance flood elevations for their area. Generally, sea level change estimates can be included in flood elevations when conducting BCAs in coastal areas using the full data flood module and may be applied to projects in any U.S. coastal area where data is available. This includes areas subject to coastal flooding as identified in the current NFIP flood study or coastal rivers and streams located as far inland as the extent of estimated tidal influence or storm surge.

When performing structure elevation projects or projects that have freeboard requirements, sea level change estimates should be added to the state or local jurisdiction's freeboard requirements if those freeboard requirements do not exceed the projected sea level change during the project's useful life.

C.1.4.1. Pre-Calculated Benefits for Elevation

Based on extensive analysis, FEMA determined pre-calculated benefits for elevation projects located in the SFHA. This analysis demonstrates a national average for benefits for elevation projects. Therefore, FEMA has determined the elevation of a structure located in the 1% annual chance floodplain for which costs are equal to or less than the pre-calculated benefits value is cost-effective.

Alternatively, if a structure's Lowest Floor Elevation (Zone A) or lowest horizontal structural member (Zone V) is lower than the Base Flood Elevation, the pre-calculated benefit may be used even if the structure is not in a mapped SFHA. For projects that contain multiple structures, the average cost of all structures in the project must meet the stated criterion.

To qualify for these pre-calculated benefits, the applicant or subapplicant must include maps with each structure's footprint clearly identified and the SFHA delineated as part of the application. If a structure or any part of a structure lies in the 1% annual chance floodplain, the applicant or subapplicant can use the pre-calculated benefits for the structure.

If the applicant or subapplicant cannot clearly demonstrate a structure is in the SFHA, then the finished floor elevation and Base Flood Elevation should be included in the BCA for the structure. If the finished floor elevation is less than Base Flood Elevation, the applicant or subapplicant can use the pre-calculated benefits for the structure. No other detailed analysis will be required. These pre-calculated benefits can be used for both riverine and coastal areas.

Additionally, the specific geographic location of structures can greatly increase elevation costs. The benefits identified above may be adjusted by the recipient and subrecipient using locality multipliers included in industry-accepted cost and pricing guides for construction. If a multiplier is used, a copy of the source document must be included as part of the application for review and the methodology demonstrated for the increase of benefits. Also, the applicant or subapplicant should use the most up-to-date locality multiplier at the time of application.

For up-to-date information on the dollar value of pre-calculated benefits, visit FEMA’s [“How to Complete a Streamlined BCA”](#) webpage.

C.1.5. Feasibility and Effectiveness

Projects must be consistent with [Part 4](#). Hazard mitigation projects assisted by HMA must be both feasible and effective at mitigating the risks of the hazard(s) for which the project was designed. A project’s feasibility is demonstrated through conformance with accepted engineering practices, established codes, standards, modeling techniques or best practices.

C.1.5.1. Codes and Standards

For structure elevation, the subapplicant must include a statement from a local official certifying the community will retain a qualified licensed professional to design the project in conformance with latest published edition of ASCE 24 or its equivalent and will meet the feasibility and effectiveness requirements.

FEMA will use the latest published edition of ASCE 24 or its equivalent as the minimum design criteria for all HMA-assisted structure elevation projects in flood hazard areas. These flood hazard areas include floodways, coastal high-hazard areas and other high-risk flood hazard areas such as alluvial fans, flash flood areas, mudslide areas, erosion-prone areas and high-velocity areas. ASCE 24 addresses design and construction requirements for new buildings and Substantial Improvements to existing buildings (including repair of substantial damage) located, in whole or in part, in flood hazard. ASCE 24 sets forth requirements for elevation, foundation designs, enclosures below elevated buildings, materials, wet and dry floodproofing, utility installations, building access and miscellaneous structures (e.g., decks, porches, patios, garages, chimneys and fireplaces, pools and above- and below-ground storage tanks).

In addition, all elevation projects in flood hazard areas must also comply with local floodplain regulations, and be permitted by the local floodplain administrator.⁴⁰⁵

C.1.6. Environmental and Historic Preservation

All subapplications submitted to FEMA must meet the EHP criteria in [Part 4](#). All subapplications must provide the information described in [Part 6](#) so that FEMA may perform the EHP review.

⁴⁰⁵ [44 CFR § 60.3](#)

C.1.7. National Flood Insurance Program Eligibility Requirements

Hazard mitigation projects sited within the SFHA are eligible only if the jurisdiction is participating in the NFIP. For FMA only, all properties included in a subapplication must be NFIP-insured at the time of the opening of the application period. The flood insurance policy must be maintained throughout the period of performance and for the life of the structure. For more information, refer to [Part 4.I](#).

C.1.8. Special Flood Hazard Area Requirements

For structures in the SFHA at the completion of the project and all structures receiving FMA regardless of location in the SFHA, flood insurance must be maintained for the life of the property.⁴⁰⁶ For more information, refer to [Part 4.I](#).

C.2. Structure Elevation: Application and Submission Information

All subapplications submitted to FEMA must meet the eligibility criteria in [Part 4](#). All subapplications must have a scoping narrative in accordance with [Part 6](#). Project-specific criteria are highlighted below.

FEMA may request additional information after the subapplication has been submitted to ensure all necessary information is received. However, all information required by the regulations and the HMA Guide must be received before an assistance decision and award or final approval can be made.

For structure elevation projects, the subapplication must include the following for each structure:

- Physical address and property owner('s) name(s).
- Longitude and latitude coordinates to the nearest sixth decimal place.
- Clear color photographs of each side of the building to be elevated.
- Color photographs of the surrounding neighborhood taken from the site of the building to be elevated.
- Estimated cost to elevate each structure.
- Name and location of flooding source (e.g., creek, river, watershed or location of stormwater ponding) and location of the property on the applicable FIRM.
- The proposed elevation of the lowest finished floor for each structure to be mitigated, the Base Flood Elevation and the current elevation of the lowest finished floor. If changes in natural hazard risk are being considered, documentation that supports those conditions and their impacts on the elevation must be included.

⁴⁰⁶ [42 U.S.C. § 4012a\(a\)](#)

- Type of existing foundation (slab-on-grade, crawl space, basement or open foundation) and the proposed elevation method and standard to be used.
- Statement that the project will be designed in compliance with NFIP standards in [44 CFR § 60.3](#).
- Schedule showing anticipated start and completion dates, significant milestones, activities and deliverables.

C.2.1. Costs

Allowable costs are costs that are necessary and reasonable for the proper and efficient performance and administration of the federal award. The following costs associated with structure elevation projects are generally allowable:

- Engineering services for design, structural feasibility analysis and budget preparation.
- Surveying, soil sampling, completion of [Elevation Certificate \(FF-206-FY-22-152\)](#), title search, deed recordation fees, legal and/or permitting fees, project administration and construction management.
- Disconnection of all utilities.
- Building of a foundation so that the lowest floor is at the Base Flood Elevation or higher if required by local ordinance or FEMA.
- Physical elevation of the structure and subsequent lowering and attachment of the structure onto a new foundation.
- Construction of a floor system that meets minimum building code requirements when the existing floor system cannot be elevated or is not appropriate for the new foundation.
- Reconnecting utilities and extending lines and pipes as necessary and elevating all utilities and service equipment.
- Debris disposal and erosion control.
- Repair of lawns, landscaping, sidewalks and driveways if damaged by elevation activities.
- Construction of a utility room above the Base Flood Elevation only if there is no existing space within the house for this purpose or there is no alternative cost-effective way to elevate the utilities.
- Elevation of existing decks, porches or stairs.
- Construction of new stairs, landings and railings to access the elevated living space per minimum code or local ordinance.

- Construction of ADA-compliant access facilities or ramps when an owner or a member of the owner’s family has a permanent disability and a physician’s written certification. An ADA-compliant access to ingress/egress is allowable for assistance unless specified otherwise in applicable state or local codes. If ramps are not technically feasible, a mechanical chair lift may be installed.
- Documented reasonable living expenses (except food and personal transportation) that are incurred while the owner is displaced by the elevation construction.
- Abatement of asbestos and lead-based paint.
- Filling basements with compacted clean fill.

C.2.1.1. Ineligible Costs

Certain structure elevation activities and their associated costs are not eligible. Ineligible costs for structure elevation include but are not limited to the following:

- Elevating structures that were not in compliance with current NFIP standards at the time of construction.
- Costs related to building additions or auxiliary structures.⁴⁰⁷
- Construction of new decks or porches.
- Any improvements for purely aesthetic reasons, unless required by the EHP compliance review.
- Costs to replace or repair utility service components that are undersized, inadequately designed or unsafe, unless required by code (except utility rooms noted as eligible costs).
- Exterior finish on the exposed foundation of the elevated building, unless required by EHP compliance review and or local code.
- Additional landscaping for ornamentation beyond what existed on the site prior to construction of the project (e.g., trees, shrubs).

C.2.2. Budget

All subapplications must include a line-item breakdown of all anticipated costs.

Subapplicants may apply for subrecipient management costs to cover administrative costs. Management costs must be included in the subapplication budget as a separate line item. More information about the requirements for management costs requests can be found in [Part 13](#).

⁴⁰⁷ “Auxiliary structure” is a garage, storage or other space/structure not used as a living/dwelling space. Building additions are defined by code as “an extension or increase in the floor area, or height of a building or structure.”

C.3. Structure Elevation: Subaward Implementation

Elevation project implementation entails:

- Pre-construction activities.
- Construction.
- Inspection of the completed foundation and engineering certification.
- Obtaining an [Elevation Certificate \(FF-206-FY-22-152\)](#) and certificate of occupancy.
- A recordation of deed restriction requirements for property maintenance and flood insurance.

Before the construction of the foundation begins, it is very important to conduct an inspection of the condition of the structure, survey the site and complete a soil inspection to ensure the proposed elevation project is feasible on the site.

C.3.1. Elevation Methods

Standard structure elevation methods are identified in FEMA P-312; FEMA P-347, *Above the Flood: Elevating your Floodprone House*; and the [Second-Story Conversion](#) FEMA fact sheet. In addition, FEMA has developed guidance for the design of appropriate foundations based on the requirements of the International Codes and other applicable standards. That guidance is provided in [FEMA P-550, Recommended Residential Construction for Coastal Areas: Building on Strong and Safe Foundations, Second Edition](#) (Dec. 2009), and is available for use with HMA structure elevation projects. FEMA also requires applicants and subapplicants to design all structure elevation projects in accordance with the latest published edition of ASCE 24 or its equivalent.

Available elevation methods, thoroughly described in FEMA P-312, FEMA P-347 and the *Second-Story Conversion* FEMA fact sheet include:

- Elevating the existing structure on piles, posts or piers.
- Elevating the structure on fill.
- Filling in the basement and replacing it with an elevated floor.
- Elevating by vertically extending the foundation walls of the home.

Activities that result in the construction of new living space at or above the Base Flood Elevation are considered only when they are consistent with mitigation reconstruction requirements. Activities include structure elevations that abandon a lower enclosed area and add a second story above the Base Flood Elevation to an existing structure.

The method that is selected for elevating a house depends on factors such as:

- Foundation type—the most common foundation types are:
 - Crawl space on foundation walls.
 - Slab-on-grade.
 - Open type foundation—piles and posts or piers.
- Condition of the house.
- Applicable state and local building codes.
- Soil type and bearing capacity.
- Weight of the house and lateral forces on the house from water and other natural hazards, such as winds and earthquakes.
- Height of proposed elevation above the grade level.
- Number of additions to the original structure.

Additional information can be found in the resources on the FEMA “[Building Science](#)” webpage.

C.3.2. Survey and Inspection Considerations

FEMA encourages surveying and inspections throughout the construction process. Certifications of the surveys ensure the work has been performed in compliance with the structure-specific plans and specifications, applicable codes and standards, and minimum NFIP requirements. [Figure 15](#) identifies important inspection and survey considerations.

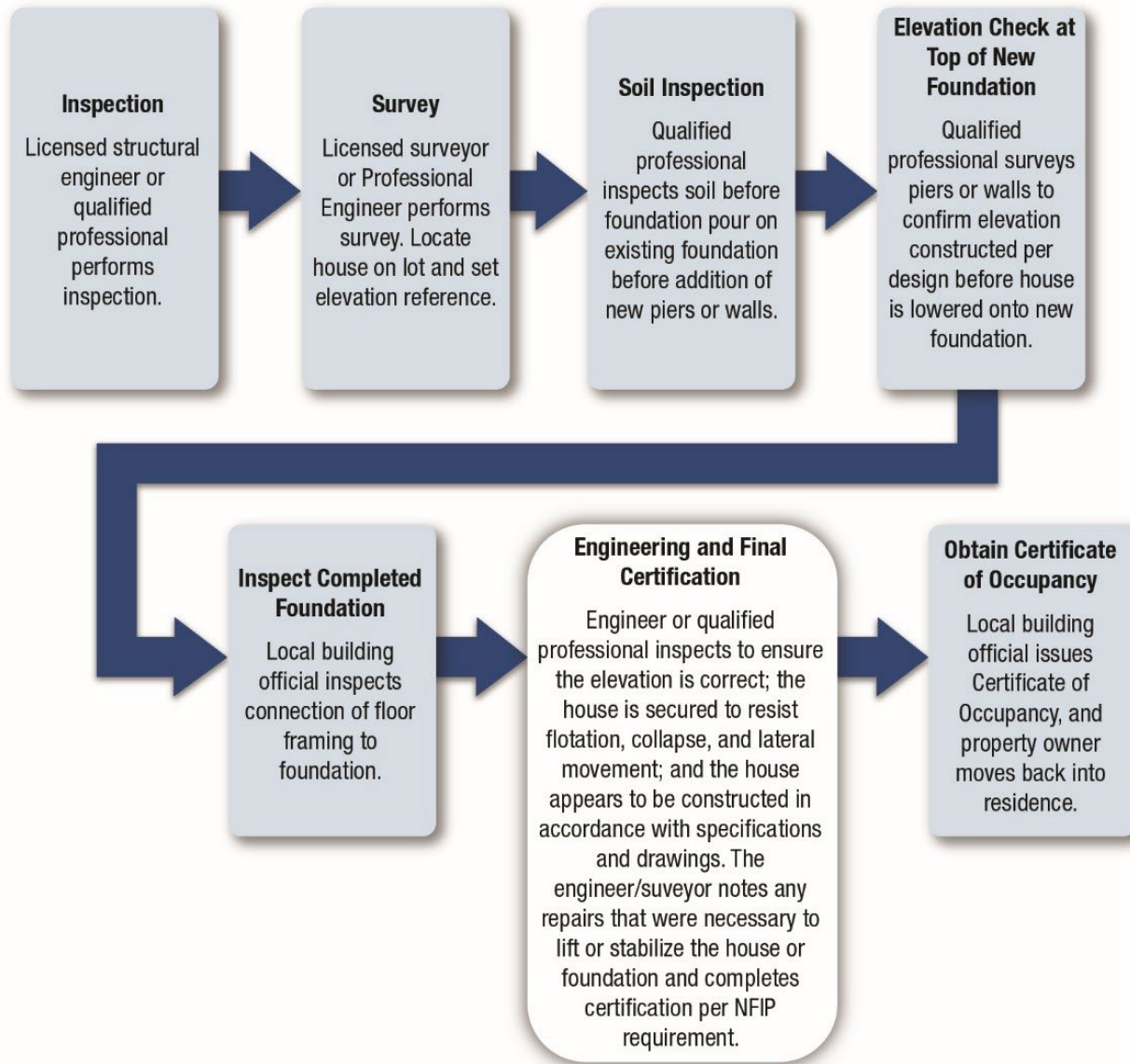


Figure 15. Inspection and Survey Considerations

C.3.3. Budget and Scope of Work Changes

Recipients are required to report deviations from budget, project scope or objectives in accordance with [Part 8](#). Recipients must request prior written approvals from FEMA for certain budget and program plan revisions.⁴⁰⁸

If the results of inspections indicate the structure cannot be elevated, the subapplicant may request a change in scope to substitute another structure. This option is only available if alternative structures were identified in the original subapplication. If the final design is not complete prior to

⁴⁰⁸ [2 CFR § 200.308](#)

award, once the project is awarded, the design must be finalized by a licensed design professional. Any changes to the scope of work or budget because of completing the final design or to address permitting requirements must be consistent with [Part 8](#). Construction design activities are defined as construction activities for budgeting and scope of work purposes.

C.4. Structure Elevation: Closeout

Recipients and subrecipients must close out projects in a timely manner consistent with [Part 9](#).

In addition to the typical HMA program closeout procedures, close out of structural elevation projects generally includes:

- A certificate of occupancy and the final [Elevation Certificate \(FF-206-FY-22-152\)](#) for each structure on the project to certify the structure is code compliant and was elevated to the required elevation.
- A copy of the recorded deed for each property, including structure elevation project deed requirements for property maintenance and flood insurance requirements.
- A signed [Acknowledgement of Conditions for Properties Using FEMA Hazard Mitigation Assistance \(FF-206-FY-22-158\)](#) form for each structure.
- A certification from a building official or licensed design professional verifying that the structure was designed and constructed to at least the minimum standard of the latest published editions of the International Codes, even in locations where no code has been adopted.
- Front, rear and side photographs of the final structure(s), including the date of the photograph, property address, latitude/longitude to the nearest sixth decimal place and the source of the photograph.
- Verification of flood insurance policy for each structure.
- Update of the property site information and address in the respective HMA electronic system database for each structure indicating if each property was mitigated or withdrawn.

HMA Grant Closeout Field Guides and Closeout Checklists can be found on FEMA's "[HMA Monitoring and Closeout Guidance](#)" webpage.

C.5. Structure Elevation: Resources



Structure Elevation Resources

- *Elevation Application Overview:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-elevation-application-overview.pdf
- *Elevation Application Instructions:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-elevation-application-instructions.pdf
- *Elevation, Application Example Document:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-elevation-application-example.pdf
- *Elevation Technical Review job aid:*
https://www.fema.gov/sites/default/files/documents/fema_technical-job-aid-elevation.pdf
- *Elevation, Information Required for Environmental Review:*
https://www.fema.gov/sites/default/files/documents/fema_EHP-elevation-job-aid.pdf
- FEMA BCA webpage: <https://www.fema.gov/grants/guidance-tools/benefit-cost-analysis>
- EHP Review job aids: <https://www.fema.gov/grants/guidance-tools/environmental-historic/preparation-resources>
- Elevation Certificate (FF-206-FY-22-152):
https://www.fema.gov/sites/default/files/documents/fema_form-ff-206-fy-22-152.pdf
- NFIP TB 5, *Free-of-Obstruction Requirements:*
https://www.fema.gov/sites/default/files/documents/fema_free-of-obstruction-technical-bulletin_2021052721.pdf
- NFIP TB-9, *Design and Construction Guidance for Breakaway Walls Below Elevated Coastal Buildings:* https://www.fema.gov/sites/default/files/documents/fema_nfip-technical-bulletin-9-09292021.pdf
- NFIP TB-1, *Requirements for Flood Openings in Foundation Walls and Walls of Enclosures:*
https://www.fema.gov/sites/default/files/documents/fema_flood-openings-technical-bulletin_20210607.pdf
- TB-10, *Ensuring That Structures Built on Fill In or Near Special Flood Hazard Areas Are Reasonably Safe From Flooding:* https://www.fema.gov/sites/default/files/2020-07/tb10_ensuring_structures_built_on_fillin_near_special_flood_hazard_areas_reasonably_safe_flooding_01_.pdf
- FEMA P-312, *Homeowner’s Guide to Retrofitting:*
https://www.fema.gov/sites/default/files/2020-07/fema_nfip_homeowners-guide-retrofitting_2014.pdf

- *Second-Story Conversion: Elevation Project Design Considerations for Hazard Mitigation Assistance Applicants* FEMA fact sheet: https://www.fema.gov/sites/default/files/2020-09/fema_second-story_conversion_elevation_fact_sheet_02-14-19.pdf
- FEMA P-347, *Above the Flood: Elevating Your Floodprone House*: https://www.fema.gov/pdf/library/fema347_toc.pdf
- FEMA P-550, *Recommended Residential Construction for Coastal Areas*: https://www.fema.gov/sites/default/files/documents/fema_p550-recommended-residential-construction-coastal-areas.pdf
- ASCE 24 *Flood-Resistant Design and Construction*: https://www.fema.gov/sites/default/files/2020-07/asce24-14_highlights_jan2015.pdf
- FEMA P-55, *Coastal Construction Manual Vol. 1*: https://www.fema.gov/sites/default/files/2020-08/fema55_voli_combined.pdf
- FEMA P-55, *Coastal Construction Manual Vol. 2*: [fema55_volii_combined_rev.pdf](https://www.fema.gov/sites/default/files/2020-08/fema55_volii_combined_rev.pdf)
- FEMA P-499, *Home Builder’s Guide to Coastal Construction*: https://www.fema.gov/sites/default/files/2020-08/fema499_2010_edition.pdf
- Additional Building Science Publications: <http://www.fema.gov/building-science-publications>

D. Stabilization

Stabilization is a project type that reduces or prevents slope failure or ground movement, of a relatively limited extent, that transports earthen debris downhill by sliding, rolling, falling or slumping. Slope failures can involve rock falls and/or debris flow (a mixture of soil, rocks and vegetation) that deposit material at the base of a slope or a slip-out where a portion of a facility fails and falls to a descending slope. Slope failures can occur in either natural ground or human-made fill, such as a highway embankment or canyon fill.

D.1. Stabilization: Eligibility

The following information highlights eligible activities under the stabilization project type. These activities are not comprehensive, and FEMA encourages applicants and subapplicants to explore innovative ways to stabilize soil. Stabilization projects are eligible under HMGP, HMGP Post Fire, BRIC and FMA. To be eligible for FMA, the activity must reduce or eliminate the risk of repetitive flood damage to buildings insured by the National Flood Insurance Program.

D.1.1. Stabilization Eligible Activities

Under HMA programs, proposed stabilization projects must meet program eligibility requirements, including mitigation of potential structure or infrastructure damage.

Stabilization is an eligible activity that involves projects that reduce risk to structures or infrastructure from erosion and landslides, including installing geosynthetics, surface and subsurface drainage, stabilizing sod, and vegetative buffer strips; preserving mature vegetation; decreasing slope angles; and stabilizing with riprap and other means of slope anchoring. These projects must not duplicate the activities of other federal agencies.

Stabilization can take place in environments ranging from shorelines and streambanks to mountainsides and hillsides, and can be used to mitigate erosion, landslides and avalanches. Stabilization mitigation techniques include traditional “hard” techniques or nature-based/bioengineered techniques, or a combination of both.

Nature-based and bioengineered stabilization techniques use native vegetation and other suitable plant species with structural components to stabilize and reduce erosion to stabilize soil. These techniques can often be used in conjunction with hard or gray stabilization measures in hybrid approaches. The following sections highlight three nature-based/bioengineered stabilization-eligible activities for streambank, shoreline and post-wildfire mitigation. These eligible activities do not represent an exhaustive list but rather serve to highlight more common nature-based/bioengineered stabilization activities.

Examples of eligible stabilization activities are provided in [Table 19](#).

Table 19: Examples of Eligible Stabilization Activities

Activity	Subactivity	HMGP			
		HMGP	Post Fire	BRIC	FMA
Traditional hard/grey techniques	Mechanically stabilized earth	Yes	Yes	Yes	Yes
	Soldier pile walls	Yes	Yes	Yes	No
	Gabion walls	Yes	Yes	Yes	Yes
	Crib walls and bin walls	Yes	Yes	Yes	Yes
Streambank stabilization	Fascines/stakes (e.g., live fascines, pole stakes and post plantings)	Yes	Yes	Yes	Yes
	Blankets/mats (e.g., erosion control blanket, live brush mattress, turf reinforcement mat, vegetated gabion mattress, coconut fiber rolls and toe stabilization/revetments)	Yes	Yes	Yes	Yes
	Stone-filled trenches (e.g., vegetated riprap, rootwad revetment, live siltation/tree revetment, trench fill revetment and longitudinal peak stone toe protections)	Yes	Yes	Yes	Yes
	Drainage-promoting measures (e.g., chimney drainage, slope drain and trench drain)	Yes	Yes	Yes	No
	Structural measures (e.g., geocellular containment system, live cribwalls, vegetated articulated concrete blocks, vegetated gabion basket and vegetated mechanically stabilized earth)	Yes	Yes	Yes	Yes
	Large woody debris	Yes	Yes	Yes	No
	Weirs and in-stream structures	Yes	Yes	Yes	No
	Bendway weir	Yes	Yes	Yes	No
	Diversion dike	Yes	Yes	Yes	No
	Engineered log jam	Yes	Yes	Yes	No
	Rock/cross vane	Yes	Yes	Yes	No
	Shoreline stabilization	Beach/dune stabilization (e.g., beach nourishment, dune nourishment and plant beach/dune grass)	Yes	Yes	Yes

Activity	Subactivity	HMGP			
		HMGP	Post Fire	BRIC	FMA
	Drainage (e.g., chimney drain, slope drain, trench drain and berm)	Yes	Yes	Yes	No
	Streambank regrading/stabilization (e.g., regrade bank, control runoff, install coir rolls and natural fiber blankets and plant native vegetation)	Yes	Yes	Yes	Yes
	Revetment (e.g., regrade slope, revetment and plant native vegetation)	Yes	Yes	Yes	Yes
	Marsh restoration (e.g., regrading fill, plant native vegetation, edging, sills, breakwater, reef balls, bulkhead, artificial beach, oyster bag/mat and thin layer placement)	Yes	Yes	Yes	Yes
Post-Wildfire stabilization	Mulching	Yes	Yes	Yes	No
	Erosion control mats or blankets	Yes	Yes	Yes	No
	Log terraces	Yes	Yes	Yes	No
	Fiber rolls	Yes	Yes	Yes	No
	Hydroseeding	Yes	Yes	Yes	No
	Silt fences	Yes	Yes	Yes	No
Drought stabilization	Erosion control (e.g., geosynthetics, surface and subsurface drainage, xeriscaping, water-smart landscapes, stabilizing sod, vegetative buffer strips and green or gray ripraps)	Yes	Yes	Yes	Yes
Other stabilization	Excavation (e.g., removing material and replacing with fill, benching or terracing a slope and reshaping ground surface)	Yes	Yes	Yes	Yes
	Reinforcement (e.g., geosynthetics, toe buttress or berm, deep soil mixing and soil nailing)	Yes	Yes	Yes	Yes
	Drainage (e.g., interceptor trench, horizontal drains and check dams)	Yes	Yes	Yes	No

D.1.1.1. Traditional or Gray and Hybrid Techniques

Traditional measures to stabilize soils often involve the installation of retaining walls. Retaining walls are relatively rigid structures that can be used to strengthen soil and increase resistance to sliding

forces in areas where space is limited, such as areas where rights-of-way are restricted. They can also be used to create additional space (e.g., road shoulders or parking areas). Hybrid walls combine wall types and may include both gray and natural elements. Examples of hard components or hybrid measures include:

- **Mechanically stabilized earth:** Mechanically stabilized earth walls are constructed using compacted granular soil fill and geotextiles placed in alternating layers to construct a steepened slope that then may have a wall facing applied.
- **Soldier pile walls:** Soldier pile walls use a system of steel piles driven at regular intervals (usually 6 to 12 feet) and horizontal members, called lagging, placed horizontally between the piles to retain the soil behind the planks. Soldier pile walls provide stability by resisting the lateral forces of the soil behind the wall.
- **Gabion walls:** A gabion is a wire cage filled with rocks, concrete pieces, gravel or bricks. A bastion is a gabion that is lined with a geotextile and filled with sand. Gabion walls provide stability by resisting lateral forces behind them. Because gabion walls typically are filled with rocks, they are freely draining and do not allow a buildup of water behind the wall.
- **Crib walls and bin walls:** A crib wall is a gravity wall system consisting of stacked members that are filled with soil or rock. Bin walls are like crib walls except interlocking bins are stacked on top of each other.

D.1.1.2. Streambank Stabilization Eligible Activities

Proposed bank stabilization projects must mitigate potential structure or infrastructure damage to meet eligibility requirements.

FEMA encourages project teams to coordinate with EHP or HMA staff to determine what data is needed to evaluate the project. The subapplicant should collect and review watershed data, hydrologic and hydraulic data, stream characteristics, soil and geotechnical data, fluvial geomorphic data, climatic and vegetative conditions, habitat characteristics (current and desired), and water quality and pertinent environmental data (current and desired). Important design considerations include site accessibility, channel grade, watershed flows, channel velocities, stream alignment, stream type/geometry, bed material and sediment load, and debris and maintenance needs.

Bioengineering approaches provide a self-stabilizing, long-term solution for many streams and banks damaged by erosion resulting from weather-related factors, construction and wildfires. The underlying principle requires the application of an integrated watershed-based approach that uses sound engineering practices together with ecological principles to assess, design, construct and maintain living vegetative systems. Bioengineering can be used on streambanks that require structural intervention to facilitate the growth of natural vegetation. Once the root system of the vegetation is established, it provides additional stream and bank stability. Successful projects can help repair damage caused by erosion and slope failures; protect or enhance already healthy, functioning systems; and ensure the long-term viability of the impaired area.

Measures may include but are not limited to the following categories:

- **Fascines/stakes:** Cuttings placed perpendicular to the ground or in trenches to improve slope and bank stability; project owners should work with appropriate local agencies to identify which plants to use.
 - Live fascines: Long branch cuttings bundled and placed in a shallow trench to stabilize streambanks and slopes.
 - Pole stakes: Cuttings from native species are embedded perpendicular to the ground in rows.
 - Post plantings: Large diameter cuttings (typically from a cottonwood or willow tree) are planted perpendicular to the ground surface, often among riprap.
- **Blankets/mats:** Protective layer of fiber, live cuttings or synthetic material placed on slopes for erosion protection.
 - Erosion control blanket: Flexible fiber mats placed over a geosynthetic netting down a slope.
 - Live brush mattress: Thick blanket of live brushy willow cuttings and soils.
 - Turf reinforcement mat: Rolled mat of non-degradable synthetic material that provides a matrix to reinforce the root system of vegetation for erosion protection.
 - Vegetated gabion mattress: Shallow rectangular containers 20 inches to 60 inches deep made of welded wire mesh and filled with rock and substrate to support vegetation.
 - Coconut fiber rolls: Manufactured, elongated cylindrical structures placed at the bottom of streambanks to help prevent scour and erosion in streams with low to moderate velocities (approximately 2.5 to 7 feet per second).
 - Toe stabilization/revetments: Structures or material, such as riprap, placed at the base of a slope to provide resistance against sliding material on a slope or embankment. In streams, these materials also reduce energy from moving water to decrease the likelihood of scour and erosion.
- **Stone-filled trenches:** Rock-filled trenches placed at the base of a stream bank capable of supporting substrate for vegetation.
 - Vegetated riprap: A layer of stone and/or boulder armoring that is vegetated, optimally during construction, using pole planting, brush layering or live-staking techniques.
 - Rootwad revetment: Structures constructed from interlocking tree materials, primarily intended to resist erosive flows and usually used on the outer bends of streams.

- Live siltation/tree revetment: A revegetation technique in which cut trees are anchored along the stream bank to secure the toe of the stream bank, trap sediments and create a fish rearing habitat.
- Trench fill revetment: Constructed by excavating a trench along the top of the bank, placing stone riprap in the trench, and filling the trench with native soil capable of supporting vegetation.
- Longitudinal peak stone toe protection: A row of well-graded stones is placed parallel to the bank along its toe/base to protect against erosion and scour. The top of the stone is a third to half the bank height and the cross section of the row is triangular. Live poles can be staked among the stones in lower flow velocity environments.
- **Drainage-promoting measures**: Free-draining material placed on a slope or bank to intercept and control runoff and seepage to ensure long-term stability.
 - Chimney drainage: A subsurface drainage course placed between a natural slope and an earthen buttress fill or other retaining structure.
 - Slope drain: A drainage system used to collect and transport storm runoff down the face of a slope.
 - Trench drain: A drainage trench excavated parallel to and just behind the crest of a stream bank.
- **Structural measures**: Large retaining structures used to stabilize banks and slopes.
 - Geocellular containment system: Flexible, three-dimensional, high-density polyethylene, honeycomb-shaped earth-retaining structures; can be expanded/backfilled with a variety of materials to mechanically stabilize banks and slopes when applied.
 - Live cribwalls: A gravity-retaining structure consisting of a hollow, box-like interlocking arrangement of structural beams filled with soil and live cuttings.
 - Vegetated articulated concrete blocks: An articulated concrete block system consisting of durable concrete blocks placed together to form a matrix overlay or armor layer while allowing vegetation to grow throughout the system.
 - Vegetated gabion basket: Rectangular containers fabricated from a heavily galvanized steel wire or triple twisted hexagonal mesh. Vegetation is incorporated into rock gabions by placing live branches on each consecutive layer between the rock-filled baskets.
 - Vegetated mechanically stabilized earth: Live cut branches interspersed between lifts of soil wrapped in natural fabric.

- **Weirs and in-stream structures:** Structures that extend into the stream to direct flows away from banks to reduce erosion.
- **Large woody debris:** Structures made from felled trees (can include rootwads) to deflect erosive flows and promote sediment deposit at the base of eroding banks.
- **Bendway weir:** Discontinuous, redirective structures usually constructed of rock, designed to capture and then safely direct the flow through a meander bend; incorporating naturally occurring vegetation enhances aquatic and terrestrial ecosystems.
- **Diversion dike:** A low berm (or ditch/berm combination) constructed along the crest/top of a streambank.
- **Engineered log jam:** Structures made from felled trees may be used to deflect erosive flows and promote sediment deposition at the base of eroding banks.
- **Rock/cross vane:** Structures angled into the flow to reduce local bank erosion by redirecting flow from the near bank to the center of the channel; vegetation planted on nearby streambanks provides long-term stability.

D.1.1.3. Shoreline Stabilization Eligible Activities

Proposed shoreline stabilization projects must mitigate potential structure or infrastructure damage to meet eligibility requirements. Projects that return a shoreline to previous or pre-disaster conditions without an increase to the level of protection are not eligible.

The subapplicant must, at a minimum, collect and review data and photographs to characterize the project site based on hydrodynamics, morpho dynamics, sediment dynamics, anthropogenic factors, local ecology and water quality, and pertinent environmental data, as described below:

- Hydrodynamics describe the movement of water at the site by processes such as waves, tides and wind-induced currents as well as hydrological processes such as rainfall, infiltration and runoff.
- Morpho dynamics describe the shape and movement of the land's surface at the site over time. Site orientation, fetch, bathymetry (measurement of depth of water in oceans, seas or lakes), and topography as well as bluff erosion and shoreline change rates are all important morpho dynamics data that should be considered.
- Sediment dynamics describe the movement of sediment, caused by the interaction of wind, water and local topography with individual sediment particles. Important information includes soil composition, sediment grain size distribution and the geotechnical properties of soil at the site.

- **Anthropogenic factors** include all human-induced impacts at the site. Examples include existing coastal structures (e.g., bulkheads, docks), commercial (e.g., dredging, shipping), recreational (e.g., powerboating, fishing), and fisheries and agricultural (e.g., commercially harvested oyster beds, aquaculture facilities).
- **Ecology** describes the naturally occurring and interdependent communities of plant, animal and microbial species occurring at the site, and the conditions they depend on. Important information includes common species of local grasses and seagrasses as well as listed threatened and endangered species relying on coastal habitats in the area.

Important design considerations include site accessibility, site grade and orientation, watershed flows, longshore currents, fetch (length of open water over which wind from a given direction can travel to create waves), bed material properties, sediment sources/sinks, debris and maintenance needs, and environmental and historical preservation.

Stabilization methods use living and non-living plant materials together with natural and synthetic construction materials to reduce coastal erosion, establish vegetation and stabilize shorelines. Successful projects can help repair damage caused by erosion and slope failures; protect or enhance already healthy, functioning systems; and ensure long-term viability of the impaired shoreline and coastal habitat areas. Commonly used bioengineered shoreline stabilization measures generally focus on reducing wave impacts, mitigating storm surge, minimizing erosion, improving slope stability and/or creating or improving coastal habitat. FEMA will not approve projects that include only sand/sediment placement as a risk reduction measure without accompanying stabilization measures.

Measures may include but are not limited to the following categories:

- **Beach/Dune Stabilization:**
 - **Beach nourishment:** Sediment of compatible type (mean grain size and material) is placed on the beach to widen it and add sediment to the shoreline system. Beach nourishment may only be used in combination with other stabilization measures.
 - **Dune nourishment:** Sediment of compatible type (mean grain size and material) is used to reinforce an eroded dune face or in some cases to create a new dune. Dune nourishment may only be used in combination with other stabilization measures.
 - **Beach/dune grass plantings:** Native, deep-rooted beach grasses are planted on the dune and upper beach to stabilize added sediment and trap additional sediment.
- **Drainage:**
 - **Chimney drain:** A subsurface drainage course placed between a natural slope and an earthen buttress fill or other retaining structure.

- Slope drain: A drainage system used to collect and transport stormwater runoff down the face of a slope.
- Trench drain: A drain excavated parallel to and just behind the crest of a coastal bank.
- Berm: An earthen mound placed at the top of a coastal bank to direct runoff away from the bank fence.
- **Streambank regrading/stabilization:**
 - Regrade bank: Eroding bank face that is unstable and over steepened is stabilized by reducing the slope. Placing fill at the bank toe and retreating the bank crest are two options.
 - Control runoff: Surface runoff is diverted away from the eroding bank face by creating a berm at the bank crest and/or by installing drywells/French drains to encourage infiltration.
 - Install coir rolls and natural fiber blankets: Blankets made of natural biodegradable fiber are rolled out onto the bank face to temporarily control erosion. Coir rolls, which are dense rolls anywhere from 6 inches to 12 inches in diameter and made of coconut husks, are placed parallel to the bank toe and up the toe face to provide protection from short-term erosion events such as storms. Native, deep-rooted vegetation is planted through the natural fiber components into the bank face.
 - Plant native vegetation: Over time, the vegetation will become established and stabilize the bank as the natural fiber components degrade.
- **Revetment:**
 - Regrade slope: Flexible, three-dimensional, high-density polyethylene, honeycomb-shaped earth-retaining structures are installed; they can be expanded/backfilled with a variety of materials to mechanically stabilize surfaces.
 - Revetment: Sloped structure placed at the toe and/or face of a coastal bank to dissipate wave energy and reduce erosion; in coastal engineering these are usually made of riprap. Composed of natural materials but not inherently a bioengineering solution.
 - Plant native vegetation: Native vegetation planted on the slope above a revetment as well as within the spaces between rocks in a revetment's face can increase stability and create habitat.
- **Marsh restoration:**
 - Regrading fill: Unstable slopes are brought to a lower grade; sediment appropriate for supporting marsh vegetation is introduced if it does not exist.

- **Plant native vegetation:** Appropriate native marsh vegetation is planted along the future marsh platform. In areas of very low wave energy this may be all that is needed.
- **Edging:** In areas of slightly higher wave energy, edging in the form of coir rolls and/or oyster shell bags can be used to protect the existing vegetated toe of the marsh.
- **Sills:** Parallel to vegetated shoreline; reduces wave energy and prevents erosion. Suitable for most areas except high wave energy environments.
- **Breakwater:** Offshore structures located parallel to the shore intended to break waves, reducing the force of wave action and encouraging sediment accretion. They are suitable for most areas and can be submerged or exposed. Where appropriate, they can be in the form of a living reef.
- **Reef balls:** Reef balls are complex geometric structures that can be installed to serve as an alternative to a traditional breakwater in some environments. They create habitat for shellfish, fish and other marine animals while simultaneously providing protection to the coast by attenuating wave energy.
- **Bulkhead:** Vertical wall parallel to the shoreline intended to hold soil in place. They are suitable for high-energy settings and sites with existing hard shoreline structures. Bulkheads are not a bioengineering solution but can sometimes be combined with bioengineering methods to reduce impacts on the local ecology and shoreline system.
- **Artificial beach:** In some cases, a gravel and/or cobble beach may be constructed in front of a bulkhead to reduce direct wave impacts and reduce erosion in front of the hard structure.
- **Oyster bag/mat:** Oyster bags/mats may be installed offshore of a bulkhead to create habitat and encourage colonization by native oysters.
- **Plant native vegetation:** Native vegetation planted landward of a bulkhead can trap airborne sediment and reduce erosion in the case that a bulkhead is overtopped.

D.1.1.4. Post-Wildfire Stabilization Activities

Soil stabilization activities post-wildfire (including activities such as flood diversion and reforestation) may be eligible under HMA programs. Landscape or soil stabilization, flood diversion and reforestation following a wildfire event are important because of the increased threat of soil erosion following the destruction of the plant material and litter layer on the ground. Reducing the risk of flood and erosion after a fire through the implementation of soil stabilization, flood diversion and reforestation efforts is important to protecting nearby communities.

Numerous techniques can be used to control erosion and provide soil stabilization after a wildfire event. Short-term stabilization methods include:

- **Mulching:** Covering the area with a protective straw layer can prevent erosion. Mulch should be covered with plastic netting or adhered to the soil with a tacking agent to minimize loss of straw to adverse weather.
- **Erosion control mats or blankets:** Fibers, straw or other plant material that protects the soil from precipitation can be used on hillsides and along valleys.
- **Log terraces:** Dead trees can be placed on the contour, opposite the direction of the slope in an alternating fashion, preventing water from finding a direct path downslope and eroding soil.
- **Fiber rolls:** Fiber rolls are made from materials such as straw or coconut fiber and are rolled into a tube. They can be used as a temporary fix to control sediment and soil surface runoff and erosion and are particularly useful to protect against sedimentation of water sources near burn sites.
- **Hydroseeding:** A slurry of seed and mulch mixed with water and fertilizer can be planted to promote growth of native grasses. Grasses help reduce soil erosion because they have an extensive root system to hold soil in place.
- **Silt fences:** Woven wire and fabric filter cloth acts as a fence to trap sediment from runoff.

Reforestation is a long-term stabilization activity that involves replanting trees and selecting seedlings to restore forest health and reduce erosion. The effectiveness of reforestation depends in part on the rate of forest establishment and appropriate maintenance accomplished during establishment to control invasive species.

D.1.1.5. Drought Stabilization Activities

Prolonged droughts can harm crops, grasses, trees, and other vegetation that cover and stabilize soils. Without that vegetative cover, wind and water can erode and destabilize the soil and put structures and infrastructure at risk. Drought-induced soil erosion and ground instability can, for example, lead to shifting slopes supporting underground infrastructure or can fill water bodies with sediment and reduce their storage capacity. FEMA can fund soil stabilization projects to address drought impacts under HMGP, HMGP Post Fire, BRIC and FMA.

Drought stabilization projects must reduce risk to structures or infrastructure from erosion, ground movement and landslides and may include installing geosynthetics, surface and subsurface drainage, stabilizing sod, and vegetative buffer strips; preserving mature vegetation; decreasing slope angles; and stabilizing with green or gray riprap and other means of slope anchoring.

D.1.1.6. Other Stabilization Activities

Other stabilization projects may be eligible for assistance under HMA programs. FEMA encourages applicants and subapplicants to explore projects not explicitly detailed in the HMA Guide. Some other stabilization activities include:

- **Excavation:** Excavation is used to remove material from the slope to decrease the forces that drive sliding. Generally, excavation is appropriate only for small slumps or near-surface failures. The excavator should be kept a safe distance from the edge of the slope so it does not impose additional loads at the top of the slope, which could decrease slope stability. The toe material at the bottom of the slope should not be removed.
 - **Removing material** from the top of the slope and replacing with lightweight fill to reduce driving forces.
 - **Benching or terracing** the slope by making stair-step cuts.
 - **Reshaping** the ground surface to reduce the slope angle.
- **Reinforcement:** The shear strength of soil, which is a combination of frictional forces and cohesion between particles, is what resists downward movement of soil along a slope. Increasing the shear strength of soil helps to improve its resistance to sliding. There are several common methods of strengthening soil to improve sliding resistance. Measures may include:
 - Use of geosynthetics to improve the strength of soil and rock.
 - Constructing a toe buttress or berm at the bottom of the slope.
 - Deep soil mixing, which involves mixing a chemical stabilizer such as cement and/or lime with soil in situ (i.e., in place) to improve soil strength.
 - Soil nailing, typically steel rods or bars installed into the slope at an angle and held in place by cement grout.
- **Drainage:** Water is a key element that contributes to the stability or instability of a slope for several reasons:
 - The weight of water adds weight to the slope, which increases the driving forces on the slope and can decrease stability.
 - Water can dissolve bonding agents that hold soil or sediment particles together, which reduces the cohesion between particles and can lead to decreased stability.
 - Water can act as a lubricant between an overlying well-drained soil such as sands and gravels and poorly drained soils such as clays and some silts. In this last situation, the water drains more quickly through the well-drained soil and accumulates along its interface with the poorly drained soil because water cannot penetrate the poorly drained soil as quickly.

Improving drainage within a slope can help to improve slope stability. Drainage methods include:

- Install an interceptor trench, which is a drainage system installed near the top of a slope or above the top of a known slide area to collect and direct surface and subsurface water from within permeable soil layers away from the slope.
- Install horizontal drains, which are perforated pipes inserted into the slope at prescribed elevations and spacings to lower the water table to the level of the lowest pipe, which decreases the driving forces by decreasing the water content of the slope soils.
- Install check dams across a drainage ditch to slow the flow of water to reduce erosion.

D.1.1.7. Coastal Barrier Resources System Eligibility Requirements

In accordance with the Coastal Barrier Resources Act,⁴⁰⁹ HMA programs may assist projects in Otherwise Protected Areas if they do not require flood insurance after project completion.⁴¹⁰ Projects in a John H. Chafee Coastal Barrier Resources System (CBRS) unit are eligible only if they qualify for one of the exceptions in Section 6 of the Coastal Barrier Resources Act.⁴¹¹ That is, projects are eligible if they are consistent with the purposes of the Coastal Barrier Resources Act and qualify as projects for the study, management, protection and enhancement of fish and wildlife resources and habitats.⁴¹²

- All projects that occur in or adjacent to CBRS units must meet one of the Coastal Barrier Resources Act exceptions and require that FEMA consult with the appropriate U.S. Fish and Wildlife Service Ecological Services field office.
- Proposed actions carried out within or adjacent to an Otherwise Protected Areas do not require consultation with the U.S. Fish and Wildlife Service.

D.1.2. Ineligible Activities

FEMA will not approve shoreline stabilization projects that include only sand/sediment placement as a risk reduction measure without accompanying stabilization measures. A general list of ineligible activities is included in [Part 4](#).

⁴⁰⁹ Public Law 97-348 (Oct. 18, 1982), as amended. To remove federal incentives to develop coastal areas, the Coastal Barrier Resources Act designated relatively undeveloped land along the Atlantic and Gulf Coast as part of the John H. Chafee Coastal Barrier Resources System (CBRS) and made these areas ineligible for most new federal assistance.

⁴¹⁰ Congress reauthorized the Coastal Barrier Resources Act with the Coastal Barrier Improvement Act of 1990 (Public Law 101-591 [Nov. 16, 1990]), expanding the CBRS to include undeveloped coastal barriers along the Florida Keys, Great Lakes, Puerto Rico and the U.S. Virgin Islands. It also added a new category of undeveloped barriers called [Otherwise Protected Areas](#). Otherwise Protected Areas consist of conservation or recreation areas such as national wildlife refuges, state and national parks, local conservation areas and private conservation areas, although they may also contain private areas not for conservation.

⁴¹¹ [16 United States Code \(U.S.C.\) § 3505](#)

⁴¹² [16 U.S.C. § 3505\(a\)\(6\)\(A\)](#), [44 CFR § 206.345](#)

D.1.3. Duplication of Programs

Bioengineered solutions may be eligible activities under programs by other federal agencies, such as the EPA, USACE and the Natural Resource Conservation Service. FEMA will not provide assistance for activities for which it determines the more specific authority lies with another federal agency or program. These other programs and authorities should be examined before applying for HMA. For more information refer to [Part 4](#).

D.1.4. Cost Effectiveness

Applicants and subapplicants must demonstrate that hazard mitigation projects are cost-effective. Projects must be consistent with [Part 5](#).

Projects must meet cost-effectiveness requirements to qualify for FEMA assistance. Cost effectiveness is evaluated by FEMA using BCA; cost-effective projects have a BCR of 1.0 or greater.

Stabilization projects that improve or restore the natural environment may be eligible for ecosystem services benefits. For more information refer to [Part 5](#).

D.1.5. Feasibility and Effectiveness

Projects must be consistent with [Part 6](#).

Hazard mitigation projects assisted by HMA must be both feasible and effective at mitigating the risks of the hazard(s) for which the project was designed. A project's feasibility is demonstrated through conformance with accepted engineering practices, established codes, standards, modeling techniques or best practices. The approach should use sound engineering practices and ecological principles to assess, design, construct and maintain living vegetative systems that are blended into the shoreline and the supported coastal ecosystem.

D.1.5.1. Design Development for Shoreline Stabilization Projects

To meet all established objectives, a combination of bioengineering techniques should be considered for a site-specific bioengineering project plan using the following selection criteria:

- **Hydrology and hydraulics:** The anticipated water surface elevations, wave and surge characteristics, prevailing currents, fetch, ice impacts and related forces should be used to determine the most appropriate type of stabilization structure (hard, bioengineered or a combination of the two) and the location and extent of selected measures.
- **Coastal geomorphology:** Form and function of the shoreline and its relationship to the coast and surrounding landscape should be studied to understand how the actions taken at the project site will affect the adjacent properties as well as the shoreline system.
- **Geotechnical considerations:** The type of rock and soil that make up the shoreline and surrounding area influence what measures are appropriate. Soil and geotechnical deficiencies

should be evaluated to focus selection of measures that can increase soil erosion resistance and allow for the establishment of vegetation where feasible.

D.1.5.2. Design Development for Streambank Stabilization Projects

A combination of bioengineering techniques should be considered for a site-specific bioengineering project plan using the following selection criteria:

- **Hydrology:** The movement and volume of the flow to and within the stream should be used to determine the best type of stabilization structure (hard/bioengineered).
- **Hydraulics:** The anticipated water surface elevations, velocities and related forces should be used to determine the location and extent of selected measures. Sudden changes in velocity or shear stresses in areas such as abutments or culverts may necessitate the use of traditional stabilization methods; whenever possible, projects should try to establish vegetation around hardened measures to gradually transition to upland vegetated areas.
- **Fluvial geomorphology:** Understanding which portions of the stream channel are damaged and what changes might occur to the stream channel in response to human-caused and natural disturbances helps determine appropriate restoration approaches. These strategies must consider the form and function of the stream channel and relationship to the stream and surrounding landscape.
- **Geotechnical considerations:** The type of rock and soil that make up the stream channel and surrounding area influence what measures are appropriate. Geotechnical deficiencies should be evaluated to focus the selection of measures that can increase soil shear strength using root systems if possible.

D.1.5.3. Design Development for Post-Wildfire Stabilization Projects

A combination of bioengineering techniques should be considered for a site-specific bioengineering project plan using the following selection criteria:

- **Geotechnical considerations:** The type of rock and soil of the affected area can influence which soil approaches are selected in the stabilization process. Different soil types and conditions affect infiltration rates, which can impact flooding and slope stability. Soils that are hydrophobic may need to be plowed or otherwise broken up to enable infiltration to occur, decreasing surface runoff.
- **Silviculture:** Long-term stabilization through reforestation is desirable to achieve objectives such as establishing the forest, improving air and water quality, enhancing wildlife habitat and increasing biodiversity. Typically, native species are selected for planting to help achieve these objectives while also preventing the establishment of non-native invasive species. Selection of the appropriate species for planting, determining the appropriate spacing of trees and

undertaking planting during the appropriate time of year for the selected species are important factors for achieving long-term stabilization.

D.1.5.4. Permitting and Regulations

It is important to address and comply with all federal, state and local regulations and obtain necessary permits after the completion of conceptual design. State and local law often runs parallel to or branches off from federal law; thus, federal, state and local reviews are often concurrent. Depending on the location, impacts, measures selected and material employed, various permits or certifications may be required before construction.

In general, permits are required from federal, state and local levels. For award, FEMA requires discussions with permitting agencies early in the project development process—even in the conceptual stages—and keeping documentation. Early discussions will likely save time and effort at the project closeout.

A list of pertinent regulations at the federal, state and local levels is included below:

- **Water quality permits:** Projects involving work within a water of the United States may require a 401 Water Quality Certification from state environmental agencies.⁴¹³ Projects with the potential to affect public drinking supplies through dewatering or other construction activities must contact the state environmental agency to identify regulatory requirements that may apply. Wherever applicable, projects proposing to discharge into surface water must comply with the permit requirements of the National Pollution Discharge Elimination System. Permits from USACE will also likely be required under [Section 10 of the Rivers and Harbors Act](#) and/or Section 404 of the [Federal Water Pollution Control Act](#) (Clean Water Act), and potentially permission will be required under Section 14 of the Rivers and Harbors Act.⁴¹⁴
- **Scenic and historic preservation:** Permits or approvals may be required for projects that require earthmoving and/or demolition of a structure if the projects are within a certain distance from designated state wild, scenic or recreational, archaeological, and prehistoric or historical sites or structures.
- **Tidal wetland and coastal zone permits:** Special permit requirements may apply in tidal waters and ocean shorelines in some states. Permits are required for projects including engineering activity that affects dune fields, beaches or shoreline lands.
- **Endangered species regulations:** Wildlife, natural resources and fisheries departments must be consulted to ensure compliance with state threatened and endangered species regulations.

⁴¹³ Section 401 of the Federal Water Pollution Control Act (Clean Water Act), Public Law 92-500 (Oct. 18, 1972), as amended

⁴¹⁴ Sections 10 and 14 of the Rivers & Harbors Appropriation Act of 1899; Chapter 425, 30 Stat. 1151 (March 3, 1899), [33 U.S.C. § 403](#) and [33 U.S.C. § 408](#), respectively; Federal Water Pollution Control Act, Public Law 92-500 (Oct. 18, 1972), [33 U.S.C. § 1251](#) et seq.

- **Water rights:** Each state regulates water rights within its jurisdiction. If a project diverts water or causes changes to a water course, approval or granting of water rights by the state may be required.
- **Floodplain management permits:** Floodplain management or construction permits may be required by the local floodplain administrator for projects occurring within federally identified special hazard areas (the 1% annual chance floodplain).
- **Local stream and wetland ordinances:** Many city or county planning departments have local ordinances pertaining to streams and wetlands. Depending on the nature of the project, several permits may be required.
- **Local water resources permits:** Local or regional irrigation and water districts are empowered to protect water resources in their jurisdiction; permits may be required for certain projects.
- **Other:** Various agencies, utilities and authorities should be consulted for projects that depend on specific activities and locations.

[Table 20](#) outlines the function and efficiency of streambank stabilization measures.

Table 20: Function and Efficiency of Streambank Stabilization Measures

			Function			Material		
Stabilization Measure	Slope Angle	In-stream	Erosion Control	Drainage	Flow Control	Natural Veg.	Geo Synthetic	Stone/Rock
Fascines/stakes								
Live fascines	Low to High	No	Yes	No	Yes	Yes	No	Yes
Pole stakes	Low to Moderate	No	Yes	No	Yes	Yes	No	Yes
Post plantings	Low to Moderate	No	Yes	No	Yes	Yes	No	Yes
Blankets/mats								
Erosion control Blanket	No	Yes	Yes	No	No	Yes	Yes	No
Live brush mattress	No	Yes	Yes	No	No	Yes	No	No
Turf reinforcement mat	No	Yes	Yes	No	No	No	Yes	No

			Function			Material		
Vegetated gabion mattress	No	Yes	Yes	No	No	No	No	Yes
Toe Stabilization/Revetments								
Coconut fiber rolls	Low to Moderate	Yes	Yes	No	No	No	Yes	No
Stone fill trenches	Low to Moderate	Yes	Yes	No	Yes	No	No	Yes
Vegetated riprap	Moderate	No	Yes	No	Yes	Yes	No	No
Rootwad revetment	Low to Moderate	Yes	Yes	No	Yes	Yes	No	No
Live siltation/tree revetment	Moderate to High	No	Yes	No	No	Yes	No	No
Trench fill revetment	Low to Moderate	No	Yes	No	No	No	No	Yes
Longitudinal peak stone toe revetment	Low to High	No	Yes	No	No	No	No	Yes

D.1.6. Environmental and Historic Preservation

All subapplications submitted to FEMA must meet the EHP criteria in [Part 4](#). All subapplications must provide the information described in [Part 6](#) so that FEMA may perform the EHP review.

D.2. Stabilization: Application and Submission Information

All subapplications submitted to FEMA must meet the eligibility criteria in [Part 4](#). All subapplications must have a scoping narrative in accordance with [Part 6](#). Project-specific criteria are highlighted below.

FEMA may request additional information after the subapplication has been submitted to ensure all necessary information is received. However, all information required by the regulations and the HMA Guide must be received before an assistance decision and award or final approval can be made.

D.2.1. Budget

All subapplications must include a line-item breakdown of all anticipated costs.

Subapplicants may apply for subrecipient management costs to cover administrative costs. Management costs must be included in the subapplication budget as a separate line item. More information about the requirements for management costs requests can be found in [Part 13](#).

D.3. Stabilization: Subaward Implementation

Project implementation includes site preparation, construction, planting, monitoring and aftercare. For the bioengineering design to be successful, implementation must be closely supervised throughout by someone familiar with the implementation of bioengineering projects. Continuity of the interdisciplinary team involved in the design is highly recommended, and consulting with someone who has implemented other bioengineering projects will help ensure the success of the project.

- **Streambank stabilization:** The optimum time to install bioengineered measures is usually during seasons when stream flows are typically low and dormant cuttings have the highest success rate for propagation. Scheduling the sequence of work is critical to project success. Scheduling considerations include endangered species' nesting seasons.
- **Shoreline stabilization:** Ideally, bioengineered measures should be installed in seasons with low storm-wave-induced erosion, when dormant cuttings have the highest success rate for propagation. Scheduling the sequence of work is critical to project success, such as considering endangered species' nesting seasons.
- **Wildfire stabilization:** Following a wildfire, there is increased vulnerability to secondary threats, such as floods and mudslides. Slope-stabilizing erosion control practices and forest regeneration can help mitigate floods and landslides. Short-term stabilization methods ideally should be implemented as soon as possible after the fire to help control erosion. Long-term reforestation methods should be undertaken during the appropriate planting season for the native species or seeding method selected.

D.3.1. Budget and Scope of Work Changes

Recipients are required to report deviations from budget, project scope or objectives in accordance with [Part 8](#). Recipients must request prior written approvals from FEMA for certain budget and program plan revisions.⁴¹⁵

If the final design is not complete prior to award, once the project is awarded, the design must be finalized by a licensed design professional. Any changes to the scope of work or budget because of completing the final design or to address permitting requirements must be consistent with [Part 8](#). Construction design activities are defined as construction activities for budgeting and scope of work purposes.

⁴¹⁵ [2 CFR § 200.308](#)

D.4. Stabilization: Closeout

Recipients and subrecipients must closeout projects in a timely manner consistent with [Part 9](#).

In addition to the typical HMA program closeout process, closeout of stabilization projects includes submitting an operations and maintenance plan to FEMA for review prior to project closeout. In the operations and maintenance plan, the recipient must confirm the plan is consistent with the HMA Guide.

At a minimum, the operations and maintenance plan must include all the following information:

- Information demonstrating the completed stabilization project will be maintained to achieve the proposed hazard mitigation.
- A description of the post-closeout maintenance activities that will be undertaken to maintain the project area.
- The period of time the community is committing to maintain the area and/or project site, which must be consistent with the project useful life in the BCA.
- The department and position type that will be responsible for maintaining the project after the construction has ended.
- Estimated costs for annual maintenance of the project.
- The schedule for completion of the maintenance activities.

HMA Grant Closeout Field Guides and Closeout Checklists can be found on FEMA's "[HMA Monitoring and Closeout Guidance](#)" webpage.

D.5. Stabilization: Resources



Stabilization Resources

- *Soil Stabilization Application Overview:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-soil-stabilization-application-overview.pdf
- *Soil Stabilization Application Instructions:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-soil-stabilization-application-instructions.pdf
- *Soil Stabilization Example Document:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-soil-stabilization-application-example.pdf

- *Soil Stabilization Technical Review job aid:*
https://www.fema.gov/sites/default/files/documents/fema_technical-job-aid-soil-stabilization.pdf
- *Soil Stabilization, Information Required for Environmental Review:*
https://www.fema.gov/sites/default/files/documents/fema_ehp-soil-stabilization-job-aid.pdf
- *Post Wildfire Soil Stabilization Application Overview:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-post-wildfire-stabilization-application-example.pdf
- *Post Wildfire Soil Stabilization Application Instructions:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-post-wildfire-soil-stabilization-application-instructions.pdf
- *Post Wildfire Soil Stabilization Example Document:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-post-wildfire-stabilization-application-example.pdf
- *Post Wildfire Soil Stabilization Mitigation Technical Review job aid:*
https://www.fema.gov/sites/default/files/documents/fema_technical-job-aid-post-wildfire-soil-stabilization.pdf
- FEMA BCA webpage: <https://www.fema.gov/grants/guidance-tools/benefit-cost-analysis>
- FEMA EHP review job aids: <https://www.fema.gov/grants/guidance-tools/environmental-historic/preparation-resources>

E. Flood Risk Reduction

Flood risk reduction projects are designed to lessen the frequency or depth of flood water. Flood risk reduction project types fall into two categories:

- Localized flood risk reduction measures.
- Non-localized flood risk reduction measures.

This section defines localized and non-localized flood risk and discusses several common project types to address each type of flood risk. The project types are not exhaustive but rather reflect those that are most common to the HMA programs.

E.1. Flood Risk Reduction: Eligibility

The following information highlights eligible activities under the flood risk reduction project type. These activities are not comprehensive, and FEMA encourages applicants and subapplicants to explore innovative ways to reduce flood risk. Flood risk reduction projects may be eligible under HMGP, HMGP Post Fire, BRIC and FMA.

E.1.1. Eligible Activities

The following sections highlight eligible activities and costs for both localized and non-localized flood risk reduction measures.

The costs necessary to design and construct HMA flood risk reduction projects in accordance with the latest edition of ASCE 24 are eligible costs.

These costs may include:

- Professional services necessary to design, manage and implement the project.
- Data analyses/investigations directly related to the hazard mitigation project (including geotechnical investigations, engineering reports and hydraulic analyses).
- Project planning and design activities, including construction verification.
- Site preparation, building materials and construction.
- Structural and conveyance systems capable of supporting flood loads.
- Other flood-resistant components that meet feasibility and regulatory requirements.
- Measures to avoid or treat adverse effects to historical properties and cultural resources.
- Costs related to complying with local utility requirements.
- Conditional Letters of Map Revisions/Letters of Map Revisions associated with the project.

E.1.1.1. Localized Flood Risk Reduction Activities

Localized flood risk reduction measures are those actions or projects taken to lessen the frequency or severity of flooding and decrease predicted flood damage within an isolated or confined drainage or catchment area that is not hydraulically linked or connected to a larger basin that is regional in scale.

Eligible localized flood risk reduction efforts include measures that reduce flood losses for single structures or facilities, groups of structures, or whole neighborhoods within an isolated or confined drainage area that is not hydraulically linked to another area. Eligible localized flood risk reduction projects also include urban flooding measures. These projects include but are not limited to:

- Stormwater management projects, including the construction, installation or modification of culverts, drainage pipes, pumping stations, floodgates, bioswales, detention and retention basins, and other stormwater management facilities.
- Flood diversion and storage measures.

- Slope stabilization or grading to direct flood waters away from homes, schools, businesses, utilities or governmental facilities.
- Flood protection measures for water and sanitary sewer systems or other utility systems.
- Vegetation management for shoreline stabilization (coastal, riverine, riparian and other littoral zones).
- Flood protection and stabilization measures for roads and bridges.

FEMA encourages innovative technologies and project types that mitigate and reduce the impact of flood losses. Localized flood risk reduction projects are eligible for assistance under HMGP, HMGP Post Fire, BRIC and FMA.

Localized flood risk reduction projects are considered minor projects and are eligible for assistance under HMGP, HMGP Post Fire, BRIC and FMA. Eligible minor physical mitigation efforts include measures that reduce flood losses for single structures or facilities, groups of structures or whole neighborhoods.

E.1.1.1.1. Stormwater Management

While there may be many different types of localized flood risk reduction projects, stormwater management projects are some of the most common to the HMA programs. Stormwater management is defined as efforts to reduce the impact of increased runoff that results from new development in a watershed. Stormwater management also encompasses many aspects of water quality and includes efforts to reduce erosion and the entry of sediment and pollutants into receiving streams.

The objective of this activity is to prevent future development from increasing flood hazards to existing development, to protect existing hydrologic functions within the watershed, and to maintain and improve water quality. Unmanaged stormwater runoff from new development and redevelopment throughout a watershed increases flood hazards by causing more frequent flooding, greater flood depths and longer-lasting floods. As forests, fields and farms are covered by impermeable surfaces such as streets, rooftops and parking lots, more of the rain runs off, and at a faster rate. When an area is urbanized, the rate and volume of runoff can increase fivefold or more. Communities are affected by development that takes place upstream in their watershed, and the community's own development can have an impact on downstream communities. Communities are encouraged to cooperate with adjacent communities to manage stormwater. Stormwater management regulations regulate development on a case-by-case basis to ensure the peak flow and volume of stormwater runoff from each site will be no greater than the runoff from the site before it was developed or redeveloped.

Stormwater management practices can be grouped loosely into the following categories:

- **Infiltration:** These approaches manage stormwater by infiltrating it into the ground. These methods are considered pollutant-reducing. Some examples include porous pavement, subsurface infiltration and bioinfiltration.
- **Slow release:** These approaches detain and slowly release stormwater over time. An example is a detention/retention pond.
- **Pollutant-reducing:** These approaches incorporate pollutant-reducing practices. They may include infiltration practices and some slow-release practices.
- **Vegetated:** These approaches use vegetation as a significant component within the storage area. Examples include bioretention basins, ponds and wet basins, green roofs, and vegetated media filters.
- **Non-vegetated:** These approaches do not have a significant vegetation component. They include but are not limited to porous pavements, blue roofs, media filters, cisterns, and subsurface storage and conveyance methods.

E.1.1.1.2. Flood Diversion and Storage

Flood diversion and storage projects involve diverting floodwaters from a stream, river or other body of water into a wetland, floodplain, canal, pipe or other conduit (e.g., tunnels, wells) and storing them in aboveground reservoirs, floodplains, wetlands or other storage facilities. Flood diversion and storage projects can be used to retain water to allow infiltration to groundwater supplies. This allows for a controlled way to mitigate flooding and enhance usable water supply to mitigate the effects of drought. Flood diversion and storage projects can also help maintain healthy ecosystems.

Depending on the scope, scale and location of potential sites, flood diversion and storage projects can vary in size and complexity. Proper planning, siting, sizing and construction are required to implement successful flood diversion and storage systems. In general, there are five different categories of flood storage areas:

- **Online:** Both dry and wet weather flows pass through the flood storage area.
- **Offline:** Dry and first-flush wet weather flows pass through the flood storage area. Larger flows bypass the facility.
- **Dry:** The flood storage system is kept essentially dry because of infiltration and evapotranspiration.
- **Wet:** The flood storage area contains water under all flow conditions.
- **Wet/dry:** Part of the flood storage area contains water and part is dry during various flow conditions.

Many flood diversion and storage projects are currently eligible for HMA as flood risk reduction activities. The HMA Guide focuses on flood diversion and storage projects implemented using green infrastructure methods as much as possible to address drought mitigation and extreme weather resilience in addition to reducing flood risk. Green infrastructure methods involve diverting the water into appropriately sized bioretention or bioretention basins. Smaller projects can provide localized flood reduction by channeling the diverted water into a bioswale, rain garden, stormwater tree trench or smaller bioretention or bioretention basin.

E.1.1.2. Non-Localized Flood Risk Reduction Activities

Non-localized flood risk reduction measures are those actions or projects that lessen the frequency or severity of flooding and decrease predicted flood damage within an area that is hydraulically linked or connected to a drainage basin that is regional in scale. These projects reduce flood hazards in areas larger than those of localized flood risk reduction projects and may include but are not limited to:

- The construction, demolition or rehabilitation of dams and weirs.
- Construction or modification of dikes, levees, floodwalls, seawalls, groins, jetties, breakwaters and stabilized sand dunes.
- Large-scale channelization of a waterway.

Non-localized flood risk reduction measures are eligible under HMGP, HMGP Post Fire and BRIC. For FMA, non-localized flood risk reduction projects such as dikes, levees, floodwalls, seawalls, groins, jetties, dams and large-scale waterway channelization projects are not eligible unless the administrator specifically determines in approving a mitigation plan that such activities are the most cost-effective hazard mitigation activities for the National Flood Mitigation Fund.⁴¹⁶

For complex flood risk reduction projects, subapplicants are strongly encouraged to use project scoping, advance assistance or a phased project approach. Refer to [Part 10](#) for more information. Examples of common project types are highlighted below. This is not an exhaustive list, and additional project types may be eligible.

Any non-localized flood risk reduction activities—including long-term flood hazard mitigation measures such as major flood risk reduction projects—that are cost-effective, feasible and designed to substantially reduce the risk of future damage and loss of life from flooding are eligible for consideration under HMGP, HMGP Post Fire and BRIC.

Section 1210(b) of the Disaster Recovery Reform Act creates an exception for HMGP to the prohibition under HMA that FEMA will not provide financial assistance for activities FEMA has determined another federal agency has more specific authority to conduct.⁴¹⁷ Specifically, Section

⁴¹⁶ [44 CFR § 77.6\(c\)\(2\)\(vi\)](#)

⁴¹⁷ Public Law 115-254 (Oct. 5, 2018)

1210(b) of the Disaster Recovery Reform Act provides that FEMA may use HMGP assistance to fund activities authorized for the construction of federally authorized water resources development projects that would normally fall under the authority of USACE, as long as those activities are also eligible under HMGP. For more information, refer to [Part 12.E.1.3.1](#).

E.1.1.2.1. Dams

Definitions of a dam vary among federal and state agencies based on regulatory criteria. The National Dam Safety Program Act of 1996⁴¹⁸ authorizes the national dam safety program and defines the term “dam” as:

(A) any artificial barrier that has the ability to impound water, wastewater, or any liquid-borne material, for the purpose of storage or control of water, that (i) is 25 feet or more in height from (I) the natural bed of the stream channel or watercourse measured at the downstream toe of the barrier; or (II) if the barrier is not across a stream channel or watercourse, from the lowest elevation of the outside limit of the barrier to the maximum water storage elevation; or (ii) has an impounding capacity for maximum storage elevation of 50 acre-feet or more; but

(B) does not include (i) a levee; or (ii) a barrier described in subparagraph (A) that (I) is six feet or less in height regardless of storage capacity; or (II) has a storage capacity at the maximum water storage elevation that is 15 acre-feet or less regardless of height unless the barrier, because of the location of the barrier or another physical characteristic of the barrier, is likely to pose a significant threat to human life or property if the barrier fails (as determined by the Director).

Dams are classified to identify their potential hazard. Hazard potential classification systems are numerous and vary within and between state and federal agencies. The hazard classifications are used by state dam safety regulators for several purposes, including for planning at the state and local levels, assigning design requirements, and determining the frequency of operations and maintenance activities and inspections.

Section III of [FEMA 333](#), *Federal Guidelines for Dam Safety: Hazard Potential Classification System for Dams* defines a system of low-, significant- and high-hazard potential classifications depending on the potential for loss of life, economic loss and environmental damage resulting from a hypothetical dam failure.

Eligible activities related to dam safety may include:

- Dam breach/break analysis to determine the effect on the downstream floodplain in the event of a dam break.

⁴¹⁸ Public Law 104-303 (Oct. 12, 1996); [33 U.S.C. § 467 et seq.](#)

- Engineering studies to determine potential dam enhancements to increase reservoir capacity/reduce downstream flooding or reduce upstream backwater flood conditions.
- Enhancements to dam control structures, the emergency spillway or other critical dam infrastructure to mitigate existing natural hazard conditions.

E.1.1.2.2. Levee Systems

A levee system is a human-made barrier along a watercourse, designed and constructed in accordance with sound engineering practices. Levee systems have the principal function of excluding flood waters from a limited range of flood events from a portion of the floodplain. Levee systems can consist of earthen embankments, floodwalls or a combination of both. Levee systems often include other features such as gates, pipes and pump stations.

A levee system cannot be constructed in open space that has been created because of an acquisition project and subapplicants will be required to reject consideration of such use if they accept FEMA assistance to convert a property to permanent open space. For more information about required consultations, refer to [Part 12.A.2.8](#).

E.1.1.2.3. Floodplain and Stream Restoration

Floodplain and stream restoration projects are used primarily to reduce flood risk and erosion by providing stable reaches. Through nature-based solutions, they may also mitigate drought impacts and extreme heat, while restoring and enhancing the floodplain, stream channel and riparian ecosystem's natural function. They provide baseflow recharge, water supply augmentation, floodwater storage, terrestrial and aquatic wildlife habitat, and recreation opportunities by restoring the site's soil, hydrology and vegetation conditions that mimic predevelopment channel flow and floodplain connectivity.

Floodplain and stream restoration projects can be scaled as needed to fit the site conditions and goals of the project. Typical goals and objectives include:

- Reduce peak velocities and stream bank erosion.
- Reduce peak flood stages.
- Protect bridge abutments, bridges, road crossings and other infrastructure.
- Protect valuable land and property.
- Increase or improve water supply and capacity.
- Restore ecological habitats for plants and aquatic species such as fish and other wildlife.
- Restore or improve water quality.

Floodplain and stream restoration projects readily lend themselves to nature-based solutions to achieve the desired impact. Potential projects that can emphasize the role of nature-based solutions to maximize ecosystem services in addition to risk reduction include:

- **Floodplain setbacks:** Removing structures from the floodplain and restoring the channel to its historical configuration. The stream is left to freely meander and flood its overbanks. This may include acquiring at-risk structures for removal and establishing levee setbacks.
- **Multistage channels:** Involves an upper channel section(s) to provide flood conveyance with a natural low-flow channel(s) within it to provide habitat enhancement and improved sediment transport capacity.
- **Relief channels:** This technique typically involves restoring the channel to its original configuration and constructing a high-flow channel or relief culvert to provide for additional flood conveyance. The restored channel provides habitat benefits while the high-flow channel can be designed to divert excess flows, providing wetland or lowland habitat or recreational benefits.
- **Addition of in-stream structures:** Flow-changing devices are a broad category of structures (e.g., rocks, logs) that can be used to divert flows away from eroding banks. They are often used to shield banks from eroding flows, build up the toe of the bank, and direct flows to create a stable alignment.
- **Bank vegetation and seeding:** Trees and shrubs can provide lowland habitat, channel shading, soil and bank stabilization, and aesthetic benefits. The use of native vegetation is strongly encouraged to support creation or restoration of habitat and to maintain natural ecosystem conditions.

FEMA encourages communities to incorporate methods to mitigate the impacts of any changes in natural hazard risk into eligible HMA-assisted risk-reduction activities by providing guidance on mitigating flood and drought conditions.

E.1.2. Ineligible Activities

Flood risk reduction projects that address, without an increase in the level of protection, the operation, deferred or future maintenance, rehabilitation, restoration, repair or replacement of existing structures, facilities or infrastructure (e.g., dredging, debris removal, replacement of obsolete stormwater systems or bridges, and maintenance/rehabilitation of facilities, including dams and other flood risk reduction structures) are not eligible.

A general list of ineligible activities is included in [Part 4](#).

In addition, ineligible costs associated with flood risk reduction projects include but are not limited to:

- General geotechnical or hydraulic studies not specifically related to the project site of the proposed hazard mitigation activity, although engineering costs associated with the design (hydrologic and hydraulic calculations) and benefit cost are acceptable.
- Flood risk reduction projects related to the repair or replacement of dams and other flood risk reduction structures and repair of dams for the purpose of regular prescheduled or damage-induced maintenance.
- Project components not consistent with FEMA-approved performance criteria.

For FMA, non-localized flood risk reduction projects are generally not eligible, unless the Administrator specifically determines in approving a mitigation plan that such activities are the most cost-effective hazard mitigation activities for the National Flood Mitigation Fund.⁴¹⁹

E.1.3. Duplication of Programs

Federal law and FEMA's regulations prohibit duplication of programs, although, for HMGP, there may be exceptions under limited circumstances if there is an extraordinary threat to lives, public health or safety, or improved property.⁴²⁰

Generally, no duplication of programs is presented by FEMA performing property acquisition for open space, elevation or localized flood risk reduction measures within a USACE or Natural Resource Conservation Service flood risk reduction project or study area. However, FEMA regulations require subrecipients to coordinate with USACE to ensure that no levee projects are planned in areas proposed for HMA property acquisition for open space activities.⁴²¹

FEMA may not use HMA to mitigate a portion of a structure/facility owned or operated by another federal agency. However, if the structure/facility is only regulated by another federal agency for a purpose other than flood risk reduction, hazard mitigation of the structure is still eligible for consideration under HMA programs. For example, dams regulated by the Environmental Protection Agency for water quality may be eligible for HMGP and BRIC flood protection improvements.

FEMA may not assist a project in an area if a statute states that another federal agency has exclusive jurisdiction to construct flood risk reduction structures in that specific area of the U.S.

FEMA cannot provide assistance for activities for which it determines the more specific authority lies with another federal agency or program.

For certain non-localized flood risk reduction projects, FEMA's authority to assist the project may overlap with USACE's or the Natural Resource Conservation Service's authority to fund a similar project. To avoid a duplication of programs concerning a non-localized flood risk reduction project,

⁴¹⁹ [44 CFR § 77.6\(c\)\(2\)\(vi\)](#)

⁴²⁰ [44 CFR § 206.434\(f\)](#)

⁴²¹ [44 CFR § 80.13\(b\)\(1\)](#)

recipients and subrecipients should consult their local USACE or Natural Resource Conservation Service office prior to developing an HMA application for the project (for additional information regarding USACE coordination for HMGP projects, refer to [Part 12.E.1.3.1](#)). In general, duplication of programs should be evaluated at the project and site levels.

The following represent the most common duplication of programs situations with respect to non-localized flood risk reduction projects:

- If the USACE or Natural Resource Conservation Service is authorized to complete a specific structural flood risk reduction project, FEMA may not assist a structural flood risk reduction project of a similar nature in the area identified in the USACE or Natural Resource Conservation Service project plan. A duplication of programs exists regardless of whether assistance has been appropriated for the project.
- If the USACE or Natural Resource Conservation Service is authorized to perform a flood risk reduction study with the goal of exploring options for structural flood protection systems in a specified area, FEMA generally may not provide HMA for projects of a similar nature in the same area. When the other federal agency has completed the study and selected a project alternative—as indicated by a public record of decision—the study no longer presents a duplication of programs. At that point, generally only the selected project elements indicated in the public record of decision represent a duplication of programs.

E.1.3.1. USACE Projects and HMGP

Section 1210(b) of the Disaster Recovery Reform Act⁴²² creates an exception for HMGP to the prohibition under HMA that FEMA will not provide financial assistance for activities the agency has determined another federal agency has more specific authority to conduct. Specifically, Section 1210(b) of the Disaster Recovery Reform Act provides that FEMA may use HMGP assistance to fund the construction of federally authorized water resources development projects that would normally fall under the primary authority of USACE, if those activities are also eligible under HMGP. These include smaller projects that Congress has granted USACE continuing authority to construct, such as under Section 205 of the Flood Control Act of 1948, Section 103 of the River and Harbor Act of 1962, and other similar flood control acts, as well as larger projects that Congress has specifically authorized for construction (such as in the Water Resources Development Acts, which are periodically reauthorized).⁴²³ These projects can address a variety of needs, including structural and non-structural flood risk reduction, coastal storm risk reduction and other water resources development purposes.

HMGP recipients may choose to prioritize and submit risk reduction applications for federally authorized water resources development projects normally under the primary purview of USACE. FEMA will contact the respective USACE District Office to identify the HMGP project potentially

⁴²² Public Law 115-254 (Oct. 5, 2018)

⁴²³ Public Law Chapter 771, Title II, § 205, 62 U.S. Statute at Large 1175 (June 30, 1948), as amended; [33 U.S.C. § 701s](#); Public Law 87-874 (Oct. 23, 1962), as amended; [33 U.S.C. § 426g](#); Division AA of Public Law 116-260 (Dec. 27, 2020)

qualifying under USACE’s various statutory and program authorities. Once identified for HMGP assistance, these projects require coordination with USACE (through FEMA) and they may be subject to certain conditions such as [Section 408 permits](#) and USACE standards, if applicable.

HMGP provides up to 75% federal cost share with a 25% non-federal cost share requirement. FEMA’s federal cost share must be applied toward the federal share of the construction project and the non-federal cost share applied to the non-federal share of the construction project. HMGP funding may not exceed the total federal share for such project.

This provision does not affect:

1. The cost-share requirement of a hazard mitigation measure under HMGP.
2. The eligibility criteria of the hazard mitigation measure under HMGP.
3. The cost share requirement for a federally authorized water resources development project.
4. The responsibilities of a non-federal interest with respect to the federally authorized water resources development project, including those related to the provision of lands, easements, rights-of-way, relocation and disposal areas.

Once HMGP assistance is applied to the construction of the federally authorized water resources development project, no further federal assistance shall be provided for the project’s construction. This prohibition is an important consideration when choosing to apply for HMGP assistance. However, the prohibition does not apply to subsequent modifications and repairs, which may be funded and implemented by USACE.

E.1.4. Cost Effectiveness

Applicants and subapplicants must demonstrate that hazard mitigation projects are cost-effective. Projects must be consistent with [Part 5](#).

The cost-effectiveness requirements may be supplemented by the White House Council on Environmental Quality’s [Principles, Requirements and Guidelines for Water and Land Related Resources Implementation Studies](#) criteria if applicable. Water resources projects may include aquifer recharge, storage and recovery and storage, flood diversion and storage, and floodplain and stream restoration.

E.1.4.1. Floodplain and Stream Restoration and Floodwater Diversion and Storage Cost Effectiveness

Floodplain and stream restoration and floodwater storage and diversion projects can provide flood risk reduction benefits that can be calculated using the BCA Toolkit. In addition, there are drought mitigation and ecosystem services benefits that may also be considered.

For more information, refer to [Part 5.B.3.1.10](#).

If the subapplicant wants to include benefits from drought mitigation, the project application must identify the increased water supply capacity the floodplain and stream restoration or floodwater storage and diversion project would provide in relation to the population that will be supported in a drought and during the project's useful life.

FEMA encourages communities to use the best available data to document a recurrence interval.

Floodplain and stream restoration or floodwater storage and diversion projects that result in new or restored wetlands; estuaries; or riparian, green or open space may leverage the ecosystem service benefits included in the BCA Toolkit. For these benefits, it would be necessary to quantify the total restored ecosystem area (in acres or square feet), define the land use type.

E.1.5. Feasibility and Effectiveness

Projects must be consistent with [Part 3](#). Hazard mitigation projects assisted by HMA must be both feasible and effective at mitigating the risks of the hazard(s) for which the project was designed. A project's feasibility is demonstrated through conformance with accepted engineering practices, established codes, standards, modeling techniques and best practices.

FEMA requires that certain HMA flood mitigation projects be designed and constructed in conformance with the design criteria of the latest published edition of ASCE 24 or its equivalent as a minimum standard for structures that are subject to building code requirements and that are located, in whole or in part, in flood hazard areas. Other infrastructure types must be designed in accordance with the codes and standards that govern the design and construction of the type of infrastructure.

FEMA will consider a project application that uses ASCE 24 (or other codes and standards applicable to the type of infrastructure) as consistent with HMA program engineering feasibility and effectiveness requirements. Project applications that do not use ASCE 24 or the infrastructure equivalent must submit documentation to demonstrate the project meets the engineering feasibility and effectiveness requirement. At closeout, the subrecipient will have to provide certification from the design professional that the design standards have been addressed.

Some water use projects are subject to water rights laws, which vary by jurisdiction. In the western U.S., the process of obtaining water rights may take several years. These issues should be addressed and, where possible, water rights should be obtained prior to application submission to prevent delays.

E.1.6. Environmental and Historic Preservation

All subapplications submitted to FEMA must meet the EHP criteria in [Part 4](#). All subapplications must provide the information described in [Part 6](#) so that FEMA may perform the EHP review.

FEMA, in consultation with appropriate federal and state agencies, will use the information provided in the application to ensure compliance with EHP requirements. This may include demonstrating

methods to incorporate public participation in the review process and/or mitigate any EHP impacts resulting from the hazard mitigation action.

E.1.6.1. Floodplain and Stream Restoration Environmental and Historic Preservation Considerations

The scope of the floodplain and stream restoration project and the presence of potentially sensitive environmental and cultural resources may impact the level of complexity of the EHP review. A floodplain restoration project with a smaller scope involving the removal of at-risk structures and planting native vegetation for bank stabilization may not require an EHP review as complex as a project with a larger scope.

E.1.6.2. Floodwater Diversion and Storage Environmental and Historic Preservation Considerations

The size and scale of the floodwater storage and diversion project and the presence of potentially sensitive environmental or cultural resources may impact the level of complexity of the EHP review. Neighborhood-scale projects in urban areas may not require as complex an EHP review as a larger-scale project impacting a floodplain. Projects larger than a neighborhood scale are more likely to affect wetlands, coastal zones, cultural resources or habitat for plants and wildlife. These issues need to be carefully evaluated during the design and planning of the project; a hydrologic and hydraulic analysis must be included as a part of the application package. In particular, the impacts on downstream flow patterns need to be considered to evaluate the effects on land use, the SFHAs, stream functions, stream habitat, and erosion or sedimentation rates.

E.2. Flood Risk Reduction: Application and Submission Information

All subapplications submitted to FEMA must meet the eligibility criteria in [Part 4](#). All subapplications must have a scoping narrative in accordance with [Part 6](#). Project-specific criteria are highlighted below.

FEMA may request additional information after the subapplication has been submitted to ensure all necessary information is received. However, all information required by the regulations and the HMA Guide must be received before an assistance decision and award or final approval can be made.

For flood risk reduction structures, the subapplication must include the following:

- Site map and location information.
- Site photographs of proposed project area and the impacted properties.
- Narrative of the flood risk being mitigated, including flood event history in the project area, if available.
- Description of the existing conditions of the project area, including existing drainage systems, if any, and structures and infrastructure impacted by flooding.

- Description of how the project will reduce flooding depths and damage and specify the level of protection provided.
- Description of the structures and infrastructure that will benefit from the project.
- Documentation of two alternatives that were considered as part of the planning process. One alternative may be a “no action alternative” that would reflect the impacts if no action were taken. Describe why the selected project was the most practical, effective and environmentally sound alternative.
- Description of proposed activity, including deliverables and tasks required to complete the proposed activity.
- Documentation that the project can independently solve the problem and is a functional portion of a solution. Projects that are dependent on a contingent action to be effective or feasible are not eligible.
- Description of the project components (e.g., alignment, materials, structural design, maintenance and how the project will fit in with surrounding systems).
- Description of construction activities (e.g., site access, storage and security; site preparation; temporary construction; earthwork, including importation of fill or disposal of fill; installation of conveyance features; and repairs to infrastructure that might be damaged during construction so that subsurface components can be installed).
- Description of installation of grade structures and scour protection.
- Description of all permitting requirements.

It is necessary for subapplicants to demonstrate that there are no adverse impacts. Flood risk reduction projects are unique in that there is the potential to reduce risk of flooding in one area while increasing flood risk in another location. In addition to the items identified in [Part 6](#), the following technical data are required:

- Design plans, specifications and engineering analysis (such as design calculations and minimum level of protection provided by the project).
- A statement by a licensed professional engineer that the project will not have negative impacts upstream or downstream of the project.
- Hydrologic and hydraulic report that provides data to support engineering analysis.
- Pre- and post-project inundation maps.

Because of the technical and complex nature of some flood risk reduction measures, FEMA may request additional information to determine/demonstrate technical feasibility and cost effectiveness and to complete required EHP reviews.

E.2.1. Schedule

A detailed schedule must be provided for all tasks identified in the project cost estimate and scope of work. The schedule should identify major milestones, with start and end dates for each activity. Project schedules must show completion of all activities including the construction period within the period of performance. Sufficient detail must be provided to document that the project can be completed within the period of performance.

E.2.2. Budget

All subapplications must include a line-item breakdown of all anticipated costs.

Typical costs for a flood risk reduction project may include but are not limited to:

- Engineering and design services and cost estimate preparation.
- Data analysis/investigations directly related to the hazard mitigation project, including geotechnical investigations, engineering reports, and hydrologic and hydraulic analyses.
- Construction management.
- Surveying.
- Permitting and/or legal fees.
- Project planning and design activities, including construction verification.
- All construction activities required for project completion.
- Cost related to complying with local utility requirements.
- Other costs mentioned above for specific flood risk reduction projects.

Subapplicants may apply for subrecipient management costs to cover administrative costs. Management costs must be included in the subapplication budget as a separate line item. More information about the requirements for management costs requests can be found in [Part 13](#).

E.3. Flood Risk Reduction: Subaward Implementation

The following are the basic steps in implementing an approved HMA flood risk reduction project:

1. Pre-construction (acquire land, if applicable; carry out design process; seek technical consultant; prepare cost estimate; obtain construction permits; hire construction manager/contractor).
2. Clear/prepare site and install erosion control measures to prepare for construction activities.
3. Complete excavation, foundation work and grading.
4. Construct project.
5. Relocate/restore utility lines.
6. Install plantings.
7. Complete inspections.

Post-award monitoring helps ensure subrecipients are achieving the objectives of the federal award consistent with the performance goals and milestones described in the subaward. To assist the recipient in monitoring flood risk reduction projects, the following milestone information or events should be included in Quarterly Progress Reports:

- If the subrecipient is acquiring contract support, the subrecipient should report when the request for proposal is completed, when the contract is out for bid, when the bid period closes, when proposals are reviewed, when the contractor is selected and the date of the kickoff meeting.
- Describe the current status including a summary of:
 - Recent progress and planned work.
 - Risks identified or changes from the milestones/deliverables submitted with the scope of work (e.g., financial concerns, coordination issues with state or local governments and utilities, project management or contracting issues, legal disputes, and significant changes impacting construction activities or timelines such as delays due to weather, materials, procurement or labor issues).
 - When construction has started, is substantially complete or completed.
- If property is purchased, the report should provide property address, purchase price and date.
- Any other milestones that have been identified in the subapplication, agreed to or are required by the recipient.

E.3.1. Budget and Scope of Work Changes

Recipients are required to report deviations from budget, project scope or objectives in accordance with [Part 8](#). Recipients must request prior written approvals from FEMA for certain budget and program plan revisions.⁴²⁴

If the final design is not complete prior to award, once the project is awarded, the design must be finalized by a licensed design professional. Any changes to the scope of work or budget because of completing the final design or to address permitting requirements must be consistent with [Part 8](#). Construction design activities are defined as construction activities for budgeting and scope of work purposes.

E.4. Flood Risk Reduction: Closeout

Recipients and subrecipients must closeout projects in a timely manner consistent with [Part 9](#).

Upon completing an HMA flood risk reduction project, the authority having jurisdiction over the project must submit to the recipient a final verification assurance that the HMA flood risk reduction project was constructed as designed and in accordance with the approved scope of work. This documentation is included as project closeout documentation and must confirm that the HMA flood risk reduction project provides the intended level of protection. If the HMA flood risk reduction project is in an SFHA, the recipient must provide FEMA documentation of flood insurance for the structure and a copy of the recorded deed amendment. All other HMA program closeout requirements must also be addressed.

The recipient shall provide the following information:

- A Letter of Map Revision if a map revision was required.
- Photographs of the property site before and after project completion.
- Latitude/longitude of the project location to the nearest sixth decimal place. Starting and ending points may be required for large or linear projects such as a drainage improvement.
- Vicinity map and map of the SFHA, if applicable.
- Copy of the as-built drawings.
- Certification from a design professional that documents the project was completed in accordance with the scope of work and that all regulatory compliance grant conditions were implemented and documented.

⁴²⁴ [2 CFR § 200.308](#)

- Final inspection report including the date of inspection and the name and job position of the inspector.
- Final signed operations and maintenance plan.

Closeout of flood risk reduction projects includes the submittal of an operations and maintenance plan to FEMA for review prior to subaward closeout. In the plan, the recipient must confirm the plan is consistent with the HMA Guide, meets or exceeds local codes, and is in conformance with appropriate permits. At a minimum, the operations and maintenance plan must include the following information:

- Information demonstrating the completed project will be maintained to achieve the proposed hazard mitigation.
- A description of the post-closeout maintenance activities that will be undertaken to maintain the project area.
- The period of time the community is committing to maintaining the area and/or project site, which must be consistent with the project useful life in the BCA.
- The department and job position that will be responsible for the project after construction has ended.
- Estimated costs for annual maintenance of the project.
- The schedule for completion of the maintenance activities.

As with any constructed project, project plans for flood risk reduction projects that include bioengineering must include maintenance and monitoring. These activities may occur more frequently while plans are establishing but will likely be minimal after they are established. Maintenance costs are a local responsibility and not a FEMA-eligible cost. The overall need for these activities depends on site conditions, including changes in natural hazard risk, ongoing coastal erosion, storm impacts and probability of animal disturbance.

HMA Grant Closeout Field Guides and Closeout Checklists can be found on FEMA's "[HMA Monitoring and Closeout Guidance](#)" webpage.

E.5. Flood Risk Reduction: Resources



Flood Risk Reduction Resources

- *Flood Risk Reduction Application Overview:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-flood-risk-reduction-application-overview.pdf

- *Flood Risk Reduction Application Instructions:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-flood-risk-reduction-application-instructions.pdf
- *Flood Risk Reduction, Application Example Document:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-flood-risk-reduction-application-example.pdf
- *Flood Risk Reduction Technical Review job aid:*
https://www.fema.gov/sites/default/files/documents/fema_technical-job-aid-flood-risk-reduction.pdf
- *Flood Risk Reduction, Information Required for Environmental Review:*
https://www.fema.gov/sites/default/files/documents/fema_ehp-flood-risk-reduction-job-aid.pdf
- *Post-Wildfire Flood Risk and Sediment Reduction Application Overview:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-post-wildfire-flood-risk-sediment-reduction-application-overview_0.pdf
- *Post-Wildfire Flood Risk and Sediment Reduction Application Instructions:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-post-wildfire-flood-risk-sediment-reduction-application-instructions_0.pdf
- *Post-Wildfire Soil Stabilization Mitigation Technical Review job aid:*
https://www.fema.gov/sites/default/files/documents/fema_technical-job-aid-post-wildfire-soil-stabilization.pdf
- FEMA BCA: <https://www.fema.gov/grants/guidance-tools/benefit-cost-analysis>
- FEMA EHP review job aids: <https://www.fema.gov/grants/guidance-tools/environmental-historic/preparation-resources>
- FEMA 333, *Federal Guidelines for Dam Safety: Hazard Potential Classification System for Dams* (2004): <https://www.ferc.gov/sites/default/files/2020-04/fema-333.pdf>
- ASCE 24: <https://ascelibrary.org/doi/book/10.1061/asce24>
- National Ground-Water Monitoring Network: <https://cida.usgs.gov/ngwmn/>
- NOAA Digital Coast: <https://coast.noaa.gov/digitalcoast/>
- Policy Clarification: *BCA Tools for Drought, Ecosystem Services, and Post-Wildfire Mitigation for HMA* (May 27, 2016): [https://www.fema.gov/media-library-data/1464899521902-b2d31bbf89cc089c3cd43851a33d4aee/PolicyClarification_BCA\(Drought-EcosystemServices-Wildfire\)_508.pdf](https://www.fema.gov/media-library-data/1464899521902-b2d31bbf89cc089c3cd43851a33d4aee/PolicyClarification_BCA(Drought-EcosystemServices-Wildfire)_508.pdf)
- White House Council on Environmental Quality’s Updated Principles, Requirements and Guidelines for Water and Land Related Resources Implementation Studies:
<https://obamawhitehouse.archives.gov/administration/eop/ceq/initiatives/PandG>

F. Floodproofing

Floodproofing is defined as any combination of structural or non-structural adjustments, changes or actions that reduce or eliminate flood damage to a building, contents and attendant utilities and equipment.⁴²⁵ Floodproofing can prevent damage to existing buildings and can be used to meet compliance requirements for non-residential buildings.

Dry floodproofing measures are either passive or active, depending on whether they require human intervention. Passive measures do not require human intervention and are recommended whenever possible. Active (or emergency) measures require human intervention and are effective only if there is enough warning time to mobilize the labor and equipment necessary to implement them and to safely evacuate.

The NFIP allows a new or substantially improved non-residential building in Zone A (A, AE, A1-30, AR, AO or AH) to have a lowest floor below the Base Flood Elevation, provided that a licensed professional engineer or architect has certified the design and methods of construction as being dry floodproofed in accordance with established criteria.

In addition, the NFIP allows for the use of wet floodproofing of structures with a lowest floor below the Base Flood Elevation, if allowed by permit in the local regulations or the local jurisdiction issues a variance and other requirements are met. Refer to [FEMA Policy #104-008-03, Floodplain Management Requirements for Agricultural Structures and Accessory Structures](#); [FEMA Floodplain Management Bulletin P-2140, Floodplain Management Requirements for Agricultural Structures and Accessory Structures](#); [FEMA Floodplain Management Bulletin P-467-2, Historic Structures](#); [NFIP Technical Bulletin 7, Wet Floodproofing Requirements and Limitations](#); and [NFIP Technical Bulletin 2, Flood Damage-Resistant Materials Requirements](#), for guidance on the use of wet floodproofing.

The following terms are important when considering floodproofing projects:

- **Substantial damage** is damage of any origin sustained by a structure whereby the cost of restoring the structure to its before-damage condition would equal or exceed 50% of the market value of the structure before the damage occurred.
- **Substantial improvement** is any repair, reconstruction, rehabilitation, addition or improvement of or to a building, the cost of which equals or exceeds 50% of the market value of the building before the improvement or repair is started (certain historic structures may be excluded).
- **Substantially impermeable walls** shall not permit the accumulation of more than 4 inches of water depth during a 24-hour period, and sump pumps shall be required to control this seepage.
- **Base Flood Elevation** is the elevation of the base flood relative to the datum specified on a community's FIRM. The base flood has a 1% chance of being equaled or exceeded in any given

⁴²⁵ [44 CFR § 59.1](#), ASCE 24

year (commonly called the 1% annual chance flood). Base flood elevations are shown on FIRMs for many SFHAs.

- **Freeboard** is an added margin of safety expressed in feet above a specific flood elevation, usually the Base Flood Elevation. In states and communities that require freeboard, buildings are required to be elevated or floodproofed to the higher elevation. For example, if a community adopts a 2-foot freeboard requirement, non-residential buildings are required to be elevated or floodproofed to 2 feet above the Base Flood Elevation.
- **Design flood elevation** is the elevation of the design flood relative to the datum specified on the community's FIRM. The design flood is associated with the greater of the area subject to the base flood or the area designated as a flood hazard area on a community flood map or otherwise designated.

Many non-residential buildings can benefit from using a combination of wet and dry floodproofing measures for adequate protection. Combining these activities is particularly useful when one or more of the following building or site conditions exist:

- Multistory or split-level buildings where different measures can be applied to different foundation types at different elevations.
- Large factories, warehouses and other industrial facilities constructed of a variety of materials that respond better to multiple floodproofing measures.
- Groups of buildings on the same site but at different elevations.

More information on floodproofing can be found at the FEMA "[Building Science – Flood Publications](#)" webpage.

F.1. Floodproofing: Eligibility

Non-residential floodproofing projects are eligible under HMGP, HMGP Post Fire, BRIC and FMA.

F.1.1. Eligible Activities

Dry floodproofing projects are eligible for non-residential structures and historic residential structures outside of Coastal A Zones (areas within the SFHA with an inland limit of the Limit of Moderate Wave Action) or Coastal High Hazard Areas (Zone V, VE, or V or V1-30).

Wet floodproofing projects are eligible in areas below the lowest floor (i.e., in areas that will be used for parking, storage, or access).

F.1.1.1. Dry Floodproofing of Non-Residential Structures

Dry floodproofing of non-residential structures consists of a combination of measures that result in a non-residential structure (including the attendant utilities and equipment) being watertight with all

elements substantially impermeable to the entrance of floodwater and with structural components having the capacity to resist flood loads.

The purpose of dry floodproofing a building is to make it watertight to floods. Dry floodproofing reduces the potential for flood damage by reducing the probability that the building interior will be inundated. It can be an appropriate alternative for flood mitigation when relocating or elevating buildings is not cost-effective or technically feasible.

The minimum performance requirement for dry floodproofing measures is for a space that is protected by walls that are substantially impermeable and resistant to flood loads. A substantially impermeable wall limits water accumulation to a maximum accumulation of four inches in a 24-hour period with a sump pump to control seepage. However, the minimum performance requirement can be exceeded with proper planning, design and materials.

Incorporating flood damage-resistant materials into the dry floodproofing design up to the height of the dry floodproofing measure is recommended. Additionally, building systems such as walls and foundations may need to be strengthened to withstand direct flood forces and the loads imposed by floodproofing measures (e.g., shields, watertight doors), which are used to temporarily seal openings.

An effective dry floodproofing retrofit should include the following:

- Detailed site evaluation.
- Detailed building evaluation.
- Careful evaluation of all the dry floodproofing measures, including a consideration of residual risk.
- Design by a qualified licensed professional engineer or architect.
- Verification/testing that the constructed systems provide the desired floodproofing effectiveness. All flood abatement equipment used for dry floodproofing projects should be tested to nationally adopted standards, such as American National Standards Institute/FM 2510.
- [*Dry Floodproofing Certificate for Non-Residential Structures \(FF-206-FY-22-153\)*](#) for the dry floodproofing design.
- A plan for deploying any active dry floodproofing measures that require human intervention.
- Sufficient warning time to deploy active dry floodproofing measures and vacate the building.
- Operations and maintenance plan.

F.1.1.2. Dry Floodproofing of Historic Residential Structures

Though HMA does not allow for dry floodproofing residential structures, the NFIP gives special consideration to the unique value of designated historic buildings and structures. Provided such structures retain their designations, communities do not have to require them to be brought into compliance if the structures will be substantially improved or have been substantially damaged. The NFIP definition of “historic structures” generally includes structures that are (1) listed or preliminarily determined to be eligible for listing in the National Register of Historic Places, (2) certified or preliminarily determined by the Secretary of the Interior Department as contributing to the historical significance of a registered historic district or a district preliminarily determined to qualify as a registered historic district, or (3) designated as a historic site under a state or local historic preservation program approved by the Secretary of the Interior Department.⁴²⁶ The definition does not include structures that are merely old, those that residents refer to as historic or those that happen to be located in historic districts.

When floodproofing measures are applied to historic structures (including historic residential structures), the measures should be designed to mitigate or reduce the flood risk while preserving the building’s historic integrity. Consultation with the state or tribal historic preservation officer and a design professional (engineer or architect), preferably experienced in rehabilitating historic structures, is necessary. Ideally, any floodproofing measure applied to a historic structure and/or its site will not affect the property’s designation. If a structure does not retain its historic designation, it is subject to the basic NFIP requirements for substantial improvement/damage.

Floodproofing measures for historic structures do not need to be comprehensive to provide at least some degree of protection.

F.1.1.3. Wet Floodproofing of Non-Residential Structures

Wet floodproofing consists of the use of flood-damage-resistant materials and construction techniques to minimize flood damage to areas below the flood protection level of a structure, which is intentionally allowed to flood.

Wet floodproofing involves the following:

- Using flood damage-resistant materials below the design flood elevation throughout the building.
- Raising utilities and important contents to or above the flood protection level.
- Installing and configuring electrical and mechanical systems to minimize disruptions and facilitate repairs.
- Installing flood openings or other methods to equalize the hydrostatic pressure exerted by floodwaters.

⁴²⁶ [44 CFR § 59.1](#)

- Installing pumps to remove floodwater gradually from basement areas after the flood (pump systems are only permitted when NFIP compliance is not required).

For information on NFIP requirements for wet floodproofing, refer to [44 CFR § 60.3](#), [NFIP Technical Bulletin 7](#), [FEMA Policy #104-008-3](#) and [Floodplain Management Bulletin P-2140](#).

F.1.2. Ineligible Activities

Dry floodproofing is not permitted in Coastal A Zones (areas within the SFHA with an inland limit of the Limit of Moderate Wave Action) or Coastal High Hazard Areas (Zone V, VE, or V or V1-30).

Wet floodproofing of structures where the lowest floor is below the required elevation is ineligible. A general list of ineligible activities is included in [Part 4](#).

F.1.3. Cost Effectiveness

Applicants and subapplicants must demonstrate that hazard mitigation projects are cost-effective. Projects must be consistent with [Part 5](#).

Determining the cost effectiveness of a floodproofing project can be done using either the Flood Modeled Damage methodology or Historic/Professional Expected Damage methodologies, both of which are part of the FEMA BCA Toolkit. The Flood Modeled Damage method relies on flood hazard data, building characteristics and Depth-Damage Functions. The Historic/Professional Expected Damage methodology relies on historical or expected damage along with a recurrence interval associated with the damage. The Historic/Professional Expected Damage methodology is used more often for floodproofing because it generally requires less data collection and may better represent the complexity of some floodproofing projects.

For dry floodproofing, retrofitting an entire large building or multiple buildings is a complex and expensive undertaking that requires analysis and design to protect the buildings against flooding from numerous points of entry of various sizes. Consequently, limiting dry floodproofing measures to the most critical elements or operations of a facility that cannot be elevated may be more cost-effective. Building managers and owners can then focus on elevating other critical areas and wet floodproofing other lower-level areas that are less critical. This situation may apply to flood-prone hospitals, schools, fire and police stations, emergency operations centers, communication and data centers, essential government buildings and other critical facilities that serve the community or affect the safety, health or welfare of a large population.

[Table 21](#) highlights the cost effectiveness of floodproofing projects. For more information, refer to [Part 5](#).

Table 21: Likelihood of Cost Effectiveness of Floodproofing Project

Magnitude of Potential Loss (\$)	Probability of Loss		
	Low	Medium	High
Low	Unlikely	Unlikely	Likely
Medium	Unlikely	Likely	Highly Likely
High	Likely	Likely	Highly Likely

F.1.4. Feasibility and Effectiveness

Projects must be consistent with [Part 3](#). Hazard mitigation projects assisted by HMA must be both feasible and effective at mitigating the risks of the hazard(s) for which the project was designed. A project's feasibility is demonstrated through conformance with accepted engineering practices, established codes, standards, modeling techniques or best practices. FEMA recommends assessing a building in two stages. First, a preliminary assessment is completed to help determine the overall feasibility of flood mitigation. The preliminary assessment is often based only on a visual examination of the building and, when available, a review of construction drawings. The desired flood protection level of dry floodproofing can also be determined in the preliminary assessment.

If the preliminary assessment suggests that flood mitigation is possible, the next stage is to perform additional site and drawing reviews and conduct testing and analyses to confirm that flood mitigation is feasible. A detailed assessment requires accurate drawings of the building or, if drawings are not available, invasive testing to determine the structural aspects and condition of the building. Soil tests to determine the type and permeability of on-site soils may also be needed.

The condition assessment must not only determine the ability of structural components to withstand flood loads but also their impermeability. For example, basement walls between adjacent buildings should be evaluated for flood load resistance and impermeability. This is especially important in an urban environment or buildings constructed in phases; otherwise, the source of flooding may become the adjacent building. Structural components, window wells, ventilation openings and utilities can each be floodwater points of entry if not properly assessed and mitigated. During the condition assessment, bowing, lateral movement, corrosion, staining and evidence of frequent water entry all may indicate the building is not an ideal candidate for dry floodproofing.

A structural engineer can evaluate the building to determine whether it is feasible to retrofit by computing flood loads, evaluating options, developing a dry floodproofing solution and preparing a probable budget. For additional guidance refer to [NFIP Technical Bulletin 3, Requirements for the Design and Certification of Dry Floodproofed Non-Residential and Mixed-Use Buildings](#). Because the final design may not be completed prior to award, once the project is awarded, the design must be finalized by a licensed professional engineer or architect, with some exceptions.

F.1.4.1. Codes and Standards

FEMA will use the latest published edition of ASCE 24 or its equivalent as the minimum design criteria for all HMA-assisted floodproofing projects in flood hazard areas. These flood hazard areas include floodways, coastal high-hazard areas and other high-risk flood hazard areas such as alluvial fans, flash flood areas, mudslide areas, erosion-prone areas and high-velocity areas. ASCE 24 addresses design and construction requirements for floodproofing for buildings in flood hazard areas when used for the construction of new buildings or to substantially improve existing buildings (including repair of substantial damage). ASCE 24 sets forth requirements for elevation, foundation designs, enclosures below elevated buildings, materials, wet and dry floodproofing, utility installations, building access and miscellaneous structures (e.g., decks, porches, patios, garages, chimneys and fireplaces, pools, and above- and belowground storage tanks). The use of the ASCE 24 standard or its equivalent will allow applicants to better demonstrate the technical feasibility and effectiveness of HMA projects in flood hazard areas and facilitate consistency in implementing HMA projects in flood hazard areas.

F.1.5. Environmental and Historic Preservation

All subapplications submitted to FEMA must meet the EHP criteria in [Part 4](#). All subapplications must provide the information described in [Part 6](#) so that FEMA may perform the EHP review.

F.1.6. National Flood Insurance Program Eligibility Requirements

Hazard mitigation projects sited within the SFHA are eligible only if the jurisdiction is participating in the NFIP. For FMA only, all properties included in a subapplication must be NFIP-insured at the time of the opening of the application period. The flood insurance policy must be maintained throughout the period of performance and for the life of the structure. For additional information on flood insurance requirements, refer to [Part 4.I](#).

F.1.6.1. Wet Floodproofing in Special Flood Hazard Areas

NFIP regulations do not permit wet floodproofing to be used to bring a substantial improvement/damage structure into compliance unless the area to be wet floodproofed is used solely for parking, building access or storage.⁴²⁷

Application of wet floodproofing as a flood protection technique under the NFIP is limited to specific situations in Zone A (A, AE, A1-30, AH, AO and AR). For certain uses and types of structures, communities may allow wet floodproofing only through the issuance of a variance from certain floodplain management requirements. The situations and conditions in which a community may allow wet floodproofing are described in detail in [NFIP Technical Bulletin 7, Wet Floodproofing Requirements and Limitations for Buildings and Structures Located in Special Flood Hazard Areas in Accordance with the National Flood Insurance Program](#) (May 2022).

⁴²⁷ [44 CFR § 60.3\(c\)\(5\)](#)

For structures in Zone V (V, VE and V1-30), more stringent design and construction requirements have been established for the portion of the structure below the Base Flood Elevation. For information on V-zone design and construction requirements, refer to the NFIP regulations under [44 CFR § 60.3](#); [FEMA P-55](#), *Coastal Construction Manual: Principles and Practices of Planning, Siting, Designing, Constructing, and Maintaining Residential Buildings in Coastal Areas, Fourth Edition, Volume I* (Aug. 2011); and the FEMA “[National Flood Insurance Technical Bulletins](#)” webpage. For more information on NFIP’s general requirements for wet floodproofing, refer to [44 CFR § 60.3](#), [NFIP Technical Bulletin 7](#), [FEMA Policy #104-008-3](#) and [Floodplain Management Bulletin P-2140](#).

F.1.6.2. Dry Floodproofing in Special Flood Hazard Areas

An important objective of the NFIP is to protect structures constructed in floodplains from flood-induced damage. In support of this objective, the NFIP regulations include building design and construction criteria that apply to new construction and substantial improvements (including structures that have incurred substantial damage) of existing structures in SFHAs. Residential structures in Zone A (A, AE, A1-30, AR, AO or AH) must be constructed with their lowest floors elevated to or above the Base Flood Elevation. Non-residential structures constructed in Zone A (A, AE, A1-30, AR, AO or AH) must either have their lowest floors elevated to or above the Base Flood Elevation or be dry floodproofed to or above the Base Flood Elevation. Measures to accomplish dry floodproofing of non-residential structures must provide watertight protection and be designed to withstand hydrostatic, hydrodynamic and impact forces produced by flooding. The intent is to provide complete protection at least up to the floodproofing design level, which must, at a minimum, be at the Base Flood Elevation.

Dry floodproofing can be used to fulfill the requirements for non-residential buildings in SFHAs that are not subject to high-velocity wave action. Some requirements apply to existing buildings when the cost of repairing or improving a building in an SFHA equals or exceeds 50% of the building’s market value. NFIP requires new and substantially improved buildings be constructed in ways that minimize or prevent flood damage. As with new non-residential buildings, existing non-residential buildings may be brought into compliance by elevating them on compliant foundations or, if determined to be feasible, by implementing dry floodproofing measures. For more information on NFIP’s general requirements for dry floodproofing, refer to [44 CFR § 60.3\(c\)](#) and [NFIP Technical Bulletin 3](#).⁴²⁸

[Dry Floodproofing Certificate for Non-Residential Structures \(FF-206-FY-22-153\)](#) is required for floodproofing measures to be recognized for NFIP purposes. It is used by the designer to certify the design, correct construction/installation of dry floodproofing components, and confirm existence of a comprehensive Maintenance Plan. It is required for the following types of buildings in Zone A for dry floodproofing:

⁴²⁸ Requirements for the Design and Certification of Dry Floodproofed Non-Residential and Mixed-Use Buildings Located in Special Flood Hazard Areas in Accordance with the National Flood Insurance Program (Jan. 2021)

- Dry floodproofed non-residential structures (no residential uses).
- Dry floodproofed portions of mixed-use buildings that have all residential uses located above the dry floodproofing design elevation.

This certificate is not required for wet floodproofing.

F.1.7. Special Flood Hazard Area Requirements

For structures in the SFHA at the completion of the project and all structures receiving FMA regardless of location in the SFHA, flood insurance must be maintained for the life of the property.⁴²⁹ For more information, refer to [Part 4.I](#).

F.2. Floodproofing: Application and Submission Information

All subapplications submitted to FEMA must meet the eligibility criteria in [Part 4](#). All subapplications must have a scoping narrative in accordance with [Part 6](#). Project-specific criteria are highlighted below.

FEMA may request additional information after the subapplication has been submitted to ensure all necessary information is received. However, all information required by the regulations and the HMA Guide must be received before an assistance decision and award or final approval can be made.

Businesses cannot apply for HMA programs, so the non-residential property owner must work with the local government to develop a project subapplication on behalf of the owner. Local governments may submit a retrofit project for a property as an individual subapplication or combine it with other projects as part of an aggregate subapplication (subject to program restrictions). Aggregating benefit and cost values is allowed for multiple buildings if they are all vulnerable to damage from similar hazard conditions. Refer to [Part 5](#) for information on aggregating projects in one subapplication.

For non-residential floodproofing projects, the subapplication must include the following:

- Identification of the property to be mitigated.
- Identification of key project personnel and roles, such as design professional and contractor.
- Selection of an eligible project.
- Inspection of the building by a licensed professional engineer or architect to verify the project can be implemented, if possible; if not done at this stage, it must be done during Step 4, Perform a Condition Assessment (Existing Structures).⁴³⁰

⁴²⁹ [42 U.S.C. § 4012a\(a\)](#)

⁴³⁰ [NFIP Technical Bulletin 3](#), Requirements for the Design and Certification of Dry Floodproofed Non-Residential and Mixed-Use Buildings.

- Development of a project budget and work schedule.
- Completion of BCA using the FEMA BCA Toolkit (refer to [Part 5](#) for additional information); if the BCR is 1.0 or greater, the project is cost-effective. FEMA requires a BCR of 1.0 or greater for HMA.
- Verification that properties in designated SFHAs will obtain flood insurance and that the insurance will be recorded on the property deed.

The local government submits the subapplication to the state. The state then selects projects based on its priorities and submits applications to FEMA for review. FEMA reviews the projects for eligibility, completeness, engineering feasibility, cost effectiveness, cost-reasonableness and EHP documentation. The review process also confirms all hazard mitigation activities adhere to all relevant statutes; regulations; program requirements, including other applicable federal, state, local and tribal laws; implementing regulations; and executive orders, all of which are detailed in the program guidance. Once FEMA approves a project and awards the grant, the state distributes the assistance to the local government, which distributes it to individuals as appropriate. Construction activities must not begin until after the money has been awarded; HMA is not available for activities initiated or completed prior to award or final approval.

F.2.1. Activities and Schedule

All subapplications, as part of the scope of work, must include an activities description referencing industry standards or project plans and specifications.

Additionally, a scope of work must include work activities, deliverables and timelines associated with a project. For a dry floodproofing project, the scope of work typically includes the problem description, proposed solution, description of existing conditions and work schedule.

F.2.2. Budget

All subapplications must include a line-item breakdown of all anticipated costs. Project costs typically include:

- Labor.
- Materials.
- Engineering and design.
- Project management.
- Construction engineering and inspection.
- Permitting.

- Estimated annual maintenance costs.

The costs for dry floodproofing a structure will depend on the following factors:

- Size of the structure.
- Height of the flood protection elevation.
- Types of sealant and shield material used.
- Number of plumbing lines that must be protected by check valves.
- Number of openings that must be covered by shields.

Subapplicants may apply for subrecipient management costs to cover administrative costs. Management costs must be included in the subapplication budget as a separate line item. More information about the requirements for management costs requests can be found in [Part 13](#).

F.3. Floodproofing: Subaward Implementation

The following are basic steps in implementing an approved HMA non-residential floodproofing project:

1. If a design was not developed before application development, secure a licensed professional engineer or architect to design, inspect and sign off on a hazard mitigation retrofit solution within the bounds of the approved subaward.
2. If a design solution was developed before application development or if a licensed professional engineer or architect is not needed because of the nature of the work, secure the services of a contractor to execute the work in the approved subaward.
3. Monitor the work being performed to ensure that all award and subaward requirements are being met.
4. Inspect the finished project and verify that all award and subaward requirements have been met. Work with the designer/contractor to resolve any issues of concern and work with the state in closing out the subaward after all requirements have been met.

F.3.1. Budget and Scope of Work Changes

Recipients are required to report deviations from budget, project scope or objectives, in accordance with [Part 8](#). Recipients must request prior written approvals from FEMA for certain budget and program plan revisions.⁴³¹

⁴³¹ [2 CFR § 200.308](#)

If the final design is not complete prior to award, once the project is awarded, the design must be finalized by a licensed design professional, with some exceptions. Any changes to the scope of work or budget because of completing the final design or to address permitting requirements must be consistent with [Part 8](#). Construction design activities are defined as construction activities for budgeting and scope of work purposes.

F.4. Floodproofing: Closeout

Recipients and subrecipients must closeout projects in a timely manner consistent with [Part 9](#).

When the project has been completed, a licensed design professional C(preferably the same one as used during the initial project design) must conduct a final inspection and verify in an inspection report that the project they designed/signed off on was implemented as intended in the approved subaward. If a contractor was the only professional who performed the work, the contractor should verify in writing that they performed the work as outlined in the contract and subaward. The subrecipient must ensure that the subaward requirements have been met through any contracts the subrecipient has with professional engineers and architects or contractors because the subrecipient is ultimately responsible for meeting the requirements. Poorly written contracts can result in work that complies with the contract but is noncompliant with the subaward requirements. The written verification of the work performed along with other project documentation demonstrating subaward compliance will help facilitate a smooth, efficient project closeout.

After obtaining project verification from the designer/contractor, the subrecipient then submits the subaward project documentation to the recipient. The recipient verifies that the work was completed in accordance with the approved subaward documentation, including the scope of work, and performs the closeout procedures.

In addition to the typical HMA program closeout processes, closeout of non-residential floodproofing projects generally includes the following:

- A certificate of occupancy and the final [Elevation Certificate \(FF-206-FY-22-152\)](#) and [Dry Floodproofing Certificate for Non-Residential Structures \(FF-206-FY-22-153\)](#) for each structure in the project to certify that the structure is code compliant and was elevated or floodproofed to the required elevation. FEMA will use the latest published edition of ASCE 24 or its equivalent as the minimum design criteria.
- A copy of a recorded deed for each property, including deed requirements for property maintenance and flood insurance.
- A signed [Acknowledgement of Conditions for Properties Using FEMA Hazard Mitigation Assistance \(FF-206-FY-22-158\)](#) form for each structure.
- A certification from a building official or licensed design professional verifying the structure was designed and constructed to at least the minimum standard of the latest published editions of the International Codes, even in locations where no code has been adopted.

- Final inspection report with the name of the inspector and date of inspection.
 - The report must provide a narrative of all the components of the project that were completed and verify the scope of work was completed and is consistent with activities identified in the scope of work.
 - The report must include photographs of the project area(s) with clear labels and a map of the project area(s) with accurate geospatial coordinates.
- A front, rear and side photograph of the final structure, including the date of the photograph, property address, latitude/longitude to the nearest sixth decimal place and the name of the photographer.
- Verification of flood insurance for each structure.
- An update to the property site information in the FEMA electronic application system for each structure.

HMA Grant Closeout Field Guides and Closeout Checklists can be found on FEMA's "[HMA Monitoring and Closeout Guidance](#)" webpage.

F.5. Floodproofing: Resources



Floodproofing Resources

- FEMA BCA: <https://www.fema.gov/grants/guidance-tools/benefit-cost-analysis>
- FEMA EHP review job aids: <https://www.fema.gov/grants/guidance-tools/environmental-historic/preparation-resources>
- Increased Cost of Compliance: <https://www.fema.gov/increased-cost-compliance-coverage>
- NFIP Technical Bulletin 3, *Non-Residential Floodproofing Requirements and Certifications*: <https://www.fema.gov/nfip-technical-bulletins>
- NFIP Technical Bulletin 7, *Wet Floodproofing Requirements and Limitations*: <https://www.fema.gov/nfip-technical-bulletins>
- FEMA Building Science: <https://www.fema.gov/building-science>
- *Elevation Certificate* (FEMA Form 206-fy22-152): https://www.fema.gov/sites/default/files/documents/fema_form-ff-206-fy22-152.pdf
- *Dry Floodproofing Certificate for Non-Residential Structures* (FF-206-FY-22-153): https://www.fema.gov/sites/default/files/documents/fema_form-ff-206-fy22-153.pdf

- [NFIP Technical Bulletin 2, Flood Damage-Resistance Materials Requirements: https://www.fema.gov/sites/default/files/documents/fema_tb_2_flood_damage-resistant_materials_requirements_01-22-2025.pdf](https://www.fema.gov/sites/default/files/documents/fema_tb_2_flood_damage-resistant_materials_requirements_01-22-2025.pdf)
- [NFIP Technical Bulletin 3, Non-Residential Floodproofing Requirements and Certification: https://www.fema.gov/emergency-managers/risk-management/building-science/national-flood-insurance-technical-bulletins](https://www.fema.gov/emergency-managers/risk-management/building-science/national-flood-insurance-technical-bulletins)
- [Floodproofing Regulations \(EP 1165-2-314\): https://www.publications.usace.army.mil/Portals/76/Publications/EngineerPamphlets/EP_1165-2-314.pdf](https://www.publications.usace.army.mil/Portals/76/Publications/EngineerPamphlets/EP_1165-2-314.pdf)
- [ASCE 7, Minimum Design Loads for Buildings and Other Structures: https://sp360.asce.org/PersonifyEbusiness/Merchandise/Product-Details/productId/233133882?_ga=2.23792690.986535157.1605995028-909266363.1575997667](https://sp360.asce.org/PersonifyEbusiness/Merchandise/Product-Details/productId/233133882?_ga=2.23792690.986535157.1605995028-909266363.1575997667)
- [ASCE 24, Flood Resistant Design and Construction: https://ascelibrary.org/doi/book/10.1061/asce24](https://ascelibrary.org/doi/book/10.1061/asce24)

G. Tsunami Vertical Evacuation Refuge

Tsunamis are rare events often accompanied by some advance warning, from minutes to a couple of hours. Depending on their wave height and speed, they can inundate low-lying coastal areas as far as one mile inland.⁴³² As such, strategies for mitigating tsunami risk have generally involved evacuation to areas of naturally occurring high ground outside the area of tsunami inundation. In some locations, high ground may not exist, or tsunamis triggered by local events may not allow sufficient warning time for communities to evacuate low-lying areas. In the case of tsunamis triggered by distant events, which can be accompanied by longer warning times, coastal communities can still be at risk if evacuation routes are long and complex, or if the routes become crowded with evacuees or obstructed by damage.

Where horizontal evacuation out of the tsunami inundation zone is neither possible nor practical, a potential solution is vertical evacuation above rising waters into buildings and other structures with the strength and resilience necessary to resist the effects of tsunami waves. A vertical evacuation refuge is a structure or earthen mound designated as a place of refuge in the event of a tsunami, with sufficient height to elevate evacuees above the tsunami inundation depth, designed and constructed to resist tsunami load effects.

FEMA provides assistance for tsunami vertical evacuation refuges through HMA. A refuge is meant to offer protection for a few hours until the danger of the tsunami waves has passed. In most areas, damaging waves will occur within the first 12 hours after the triggering event, although the potential for abnormally high tides and coastal flooding can last up to 24 hours. Vertical evacuation refuges

⁴³² National Oceanic and Atmospheric Administration "[Tsunamis](#)" webpage

may be designated to serve as recovery shelters, but only the hazard mitigation activities required for the vertical evacuation refuge component will be eligible for HMGP, HMGP Post Fire or BCA assistance. Assistance is not available for facilities that will be used solely as longer-term shelters meant to provide safe, accessible and secure short-term housing and services for disaster survivors.

[Appendix M of the IBC](#), *Tsunami-Generated Flood Hazards*, states that “Tsunami Vertical Evacuation Refuge Structures located within a tsunami hazard design zone shall be planned, sited, and developed in general accordance with the planning criteria of the FEMA P-646 guidelines.” As such, HMA uses the following definitions from [FEMA P-646](#), *Guidelines for Design of Structures for Vertical Evacuation from Tsunamis*, Third Edition (Aug. 2019):

- **Refuge:** An evacuation facility intended to serve as a safe haven until an imminent danger has passed (e.g., a few hours).
- **Shelter:** An evacuation facility that is intended to provide safe, accessible and secure short-term housing for disaster survivors, typically including a place to sleep along with extended food and water supplies.
- **Vertical evacuation refuge:** A building, non-building structure or earthen mound designated as a place of refuge in the event of a tsunami, with sufficient height to elevate evacuees above the tsunami inundation depth, designed and constructed to resist tsunami load effects in accordance with ASCE/SEI 7 (latest published edition).

G.1. Tsunami Vertical Evacuation Refuge: Eligibility

Tsunami events can be preceded or followed by other natural hazards. The consequences of concurrent hazard events must be addressed as part of a tsunami vertical evacuation project. The most common concurrent hazard events are earthquakes, fires, landslides and upstream river and waterway flooding.

In the case of near-source-generated tsunami hazards, vertical evacuation refuges must be designed for seismic load effects in addition to tsunami load effects, including debris impact loads, and must consider access issues including post-earthquake functionality of vertical circulation systems (e.g., elevators, escalators and stairs), fire resistance and suppression, and availability of emergency power.⁴³³ Vertical evacuation refuge structures must be tall enough to ensure safety of those seeking refuge even if the tsunami exceeds the design event. Vertical evacuation refuge structures should be located away from the wave-breaking zone when possible.

Functions that are critical for operation as a short-term refuge must be considered. Emergency power systems must be provided with adequate fuel supply and located above the anticipated flood level or adequately protected from water damage. Similarly, communications equipment must be

⁴³³ A near-source-generated (local) tsunami is one that originates from a source that is close to the site of interest and arrives within one hour of the triggering event (United Nations Educational, Scientific and Cultural Organization/Intergovernmental Oceanographic Commission *Tsunami Glossary* [2019]).

protected from damage due to inundation, impact and seismic activity. Basic sanitation needs and safe storage for emergency provisions such as food and water must also be addressed. Fire protection systems must be designed in accordance with applicable fire safety codes.

Vertical evacuation refuge structures should be designed with considerations for ease of access and entry; compliance with ADA requirements; parking limitations; a policy regarding accommodation of pets; occupancy limitations; and protection of critical functions.

G.1.1. Eligibility Criteria

Tsunami vertical evacuation is eligible under HMGP, HMGP Post Fire and BRIC. To be eligible for HMA, vertical evacuation refuge structure applications and subapplications must include:

- Documentation on how the size and demographics of the impacted population was determined for use in locating and sizing the vertical evacuation refuge structure.
- How the impacted population would travel to the vertical evacuation refuge structure.
- Estimated travel times to reach the structure.
- Cost effectiveness analysis using an approved FEMA methodology.
- Description of the approach the subapplicant will use in preparing the operations and management plan.

G.1.1.1. Populations Served by the Tsunami Vertical Evacuation Refuge

FEMA will only consider HMGP, HMGP Post Fire and BRIC subapplications for vertical evacuation refuge projects that identify that the population will not have time to evacuate the area and would face an imminent threat of tsunami-related hazards. The applicant or subapplicant will identify and quantify this population so the size of the vertical evacuation refuge can be verified during the application review process. The size of the vertical evacuation refuge is demonstrated by risk assessment information, such as information that is developed as part of a mitigation plan or evacuation plan.

Vertical evacuation refuges may be designated to serve as recovery shelters, but only the hazard mitigation activities required for the vertical evacuation refuge component will be eligible for HMGP, HMGP Post Fire or BRIC assistance. HMGP, HMGP Post Fire and BRIC assistance is not available for facilities that will solely be used as general population shelters, such as recovery shelters. The emergency management measures necessary to afford protection to thousands of occupants of large, public venues, such as stadiums or amphitheatres, are beyond the scope of HMGP, HMGP Post Fire, or BRIC refuge structures; therefore, community shelters are not eligible for HMGP, HMGP Post Fire, or BRIC assistance. Applicants and subapplicants must identify the hazard mitigation population to be protected, otherwise the application review may be delayed or the application may be rejected.

The following information provides details to help applicants and subapplicants identify, quantify and document eligible populations needing hazard mitigation life-safety protection during tsunami events. This section further describes categories of populations that are affected by tsunamis.

At a minimum, the applicant will demonstrate consideration of the following components in determining the eligible tsunami vertical evacuation structure population:

- Population to be protected within the area of impact by tsunami hazards.
- Warning capabilities, logistics and operation components that support basic vertical evacuation refuge functions.
- Travel times and routes for the population to be protected to reach the vertical evacuation refuge so that people are not exposed to additional risk when moving to the protected area.
- Hazard mitigation time of protection according to FEMA P-646 (minimum of eight hours and maximum of 24 hours).
- Relationship of the population to be protected by the vertical evacuation refuge to state or local emergency evacuation requirements.
- Effective and accessible warnings (alerts) that address the needs of individuals with disabilities and other access and functional needs and/or individuals who have limited English proficiency. Refer to the FEMA “[Integrated Public Alert and Warning System](#)” webpage for additional information.

G.1.1.2. Tsunami Vertical Evacuation Refuge Sizing Criteria

The identified population directly affects the proposed vertical evacuation refuge size and is verified during the subaward review process. HMGP, HMGP Post Fire and BRIC assistance is not provided for vertical evacuation refuges that are larger than the size required to accommodate the identified population. HMGP, HMGP Post Fire and BRIC vertical evacuation refuge project applications are subject to usable floor area per occupant space requirements and size limitations identified in the design criteria noted in this section. [Table 22](#) identifies the minimum required usable floor area per occupant consistent with FEMA P-646- and ASCE/SEI 7-recognized design criteria.

Table 22: HMA-Assisted Tsunami Vertical Evacuation Refuge Minimum Usable Floor Area per Occupant

Occupant Type	Minimum Usable Floor Area per Occupant* (square feet)
Standing or seated	10
Wheelchair user	10
Medical bed user	30

* In addition to the square footage requirement per person, applicants and subapplicants must consider the normal functional use of the area. The type of durable medical equipment and furniture in a dual-purpose vertical evacuation refuge will determine how to calculate the net usable area. The net usable area is the available area to be used by the occupants after reducing the non-usable area from the gross area.

FEMA P-646 recommends the following:

- Usable floor area is 50% of gross floor area in shelter areas with concentrated furnishings or fixed seating.
- Usable floor area is 65% of gross floor area for structures with unconcentrated furnishings and without fixed seating.
- Usable floor area is 85% of gross floor area for structures with open plan furnishings and without fixed seating.

G.1.1.3. Population Impacted by Tsunamis

This section provides information to help applicants and subapplicants identify and define the population impacted by tsunamis and identify who may require a vertical evacuation facility.

G.1.1.3.1. Inundation Modeling and Mapping

As a community conducts a tsunami hazard assessment, it likely will complete inundation modeling and mapping. NOAA has already completed site-specific inundation models for 75 sites.⁴³⁴ These forecast models can be used to identify the area likely to be inundated during a tsunami. In addition to the NOAA models, other models are available to evaluate the potential inundation area for the Maximum Considered Tsunami, which is taken as a probabilistic tsunami having a 2% chance of being exceeded in a 50-year period, which equates to a 2,475-year mean recurrence interval. FEMA P-646 tsunami modeling generally is not widely commercially available but can be performed by a number of organizations, including government laboratories (such as U.S. Geological Survey, NOAA and Los Alamos National Laboratory), some universities, and some coastal engineering consulting companies with coastal engineering expertise. ASCE/SEI 7 also includes a tsunami geodatabase for the West Coast, Hawaii and parts of Alaska. The geodatabase provides information for some design parameters such as the extent of the Tsunami Design Zone. Where design data are not available,

⁴³⁴ Refer to the NOAA Center for Tsunami Research "[Forecast Inundation Models](#)" webpage.

ASCE/SEI 7 requires a probabilistic tsunami hazard analysis to be performed to develop design parameters. Additional information about how to conduct this analysis is included in ASCE/SEI 7.

Demographic information can be obtained for the likely inundation area to determine the characteristics of the population that could be impacted by a tsunami. This information can be used in the planning and design processes for vertical evacuation refuges. In addition to the resident population, the potential for tourists and other non-residents should be considered when determining the population to be served by the vertical evacuation refuge.

G.1.1.3.2. Evacuation Modeling

Once the likely inundation area is known and the potentially affected population is quantified and characterized, evacuation models can be used to simulate evacuating the population to the shelter location by vehicle and/or on foot. Different models can simulate route selection, response time, travel speed, terrain, road networks, traffic, etc. They can also include parameters to simulate debris blockages, road damage and collapses of bridges and buildings. The evacuation models can be used to determine the estimated reduction in injuries and lives lost during the design event. The evacuation models can be run multiple times to account for different travel speeds, refuge locations and other considerations to evaluate strategic locations for the refuges, the number of people to be accommodated, and accommodations to serve various segments of the population.

G.1.1.3.3. Tsunami Period of Protection

As identified in FEMA P-646, the hazard mitigation time of protection for tsunami vertical evacuation refuges is eight to 24 hours. Therefore, any ancillary equipment required to operate during an event for the refuge must also be properly sized and protected to the same level as the refuge.

G.1.1.3.4. Tsunami Documentation

Applicants and subapplicants must provide documentation to support the identified population for the vertical evacuation refuge and must also submit adequate documentation in support of their risk assessments to allow program reviewers to determine whether the proposed refuge size is appropriate for the identified population. The documentation should be sufficiently detailed to be verified during the review process. Applicant and subapplicant coordination with the applicable federal, state or local agency responsible for developing emergency evacuation plans is critical.

Each program identifies documentation requirements. In general, however, documents that can be used to quantify the disproportionately impacted population, such as evacuation plans, emergency response plans, evacuation and inundation models, and meeting notes, are acceptable. For example, the population categories listed above may be part of the affected population identified in an emergency evacuation plan.

In all cases, the planning and operation of HMGP, HMGP Post Fire and BRIC vertical evacuation refuges, including identifying the population to be protected, must not conflict with state and/or local evacuation plans.

HMGP, HMGP Post Fire and BRIC vertical evacuation refuge activities must not be used as a substitute for, or as an option for individuals to ignore, local community and/or state evacuation plans or any other law or ordinance.

G.1.1.3.5. Tsunami Warning Capabilities

In addition to design and construction criteria, an accessible and effective warning system must be in place to notify prospective community tsunami vertical evacuation refuge occupants when they should evacuate to the facility. Applicants and subapplicants for tsunami vertical evacuation refuge projects must demonstrate that the population can be properly notified to allow sufficient travel time to the refuge.

G.1.2. Eligible Activities

Tsunami vertical evacuation is only eligible under HMGP, HMGP Post Fire and BRIC. Eligible activities include:

- Design and/or construction of a facility for a tsunami vertical evacuation refuge.
- Design and/or construction costs to add a vertical evacuation component to a new multipurpose facility.
- Modification of existing structures to accommodate a tsunami vertical evacuation refuge.
- Construction of elevated earthen berms for tsunami vertical evacuation.

Eligible costs for HMGP, HMGP Post Fire and BRIC-assisted tsunami vertical evacuation refuge projects are project components (e.g., design, construction and project administration) that are related directly to, and necessary for, the hazard mitigation purpose of providing immediate life-safety protection.

Budgets contained in applications and subapplications should include only eligible costs. [Table 23](#) shows eligible and ineligible components of tsunami vertical evacuation refuges. This table can be referred to when determining whether a component is an eligible cost of a tsunami vertical refuge application.

Eligible project costs are limited to:

- Protection by design components, in the case where a portion of an existing building is converted to a tsunami vertical evacuation refuge, including the exterior structural components, foundations, floor systems, columns, beams and wall systems, as specified in FEMA P-646, the latest published edition of ASCE/SEI 7 and the IBC, and applicable local building codes.
- Design and construction components for tsunami vertical evacuation refuge portion only, including engineering fees, permit fees, special inspection fees and excavation.

- Required features necessary for critical functions, including emergency power, electrical equipment, communications equipment, and ADA requirements such as accessible toilets and hand-washing stations.

Table 23: Eligible and Ineligible Components of Tsunami Vertical Evacuation Refuges

Components	Is the component eligible?
Structural systems that directly support or protect the tsunami vertical evacuation refuge or portion of building that serves this function	Yes
Means of 24-hour access	Yes
Protection of backup mechanical, electrical, ventilation and communication equipment necessary to provide critical functions for the tsunami vertical evacuation refuge	Yes
Signage	Yes
Communications, including at least one backup means of communication	Yes
Battery-powered signal emitting device that can be used to signal the location of the facility to local emergency personnel	Yes
Construction and permit fees	Yes
Alternate source of power	Yes
First aid supplies and equipment	Yes
Fire suppression systems (sprinkler systems and fire extinguishers)	Yes
Electrical lighting and outlets required for tsunami vertical evacuation refuge or portion of building that serves that function	Yes
ADA requirements	Yes
Ventilation	Yes
Heating, ventilation and air conditioning used for required ventilation	Yes
Heating, ventilation and air conditioning not used for required ventilation	No
Accessible toilets and hand-washing stations in tsunami vertical evacuation refuge or portion of building that serves this function	Yes
Planning/engineering/architecture design fees	Yes
Engineering study to calculate undefined flood elevations and/or inundation zones	Yes
Engineering peer review	Yes

Components	Is the component eligible?
Site preparation	Yes
Inspections, including special inspections	Yes
Geotechnical investigation	Yes
Storage room for food, water and safety equipment	Yes
Purchase of land (market value of the real property [land and structure] at the time of sale)	Yes
Fees for necessary appraisals, title searches, title insurance, property inspections, permit fees and surveys	Yes
Fees associated with the title transfer, contract review and other costs associated with conducting the real estate settlement, including recordation of the deed and deed restrictions	Yes
Property tax liens or tax obligations can be extinguished with proceeds from property sale while performing the transfer of title	Yes
Tsunami vertical evacuation refuge maintenance	No
Restroom fixtures not required by code, FEMA P-646 or ASCE/SEI 7	No
Paint on walls and ceilings of tsunami vertical evacuation refuge	No
Floor coverings – subfloors not required for life safety	No
Removal of structures from developed land	No
Kitchen cabinets, countertops and other equipment not required for life safety	No
Security cameras and emergency operations center-type equipment	No
Landscaping	No
Parking and all non-building elements unless required for ADA compliance	No

G.1.3. Ineligible Activities

Costs associated with providing facilities for any function that is not essential for life-safety protection of occupants are not eligible. Refer to [Table 23](#) for a list of ineligible activities related to tsunami vertical evacuation refuge. A general list of ineligible activities is included in [Part 4](#). If a tsunami vertical evacuation refuge structure can fulfill its basic function of life-safety protection for users during a tsunami without a building feature or component that provides conveniences or additional comfort, costs associated with that feature or component are not eligible for assistance.

G.1.4. Cost Effectiveness

Applicants and subapplicants must demonstrate that hazard mitigation projects are cost-effective. Projects must be consistent with [Part 5](#).

The FEMA BCA Toolkit currently does not have a tsunami module. Applicants and subapplicants may work with their respective FEMA regional office and the BCA Helpline to determine how the Historic/Professional Expected Damage methodology may be used and approaches like those used for safe rooms might be applied, or if other approaches/models are acceptable.

G.1.5. Feasibility and Effectiveness

Projects must be consistent with [Part 4](#). Hazard mitigation projects assisted by HMA must be both feasible and effective at mitigating the risks of the hazard(s) for which the project was designed. A project's feasibility is demonstrated through conformance with accepted engineering practices or established codes, standards, modeling techniques, or best practices.

G.1.5.1. Codes and Standards

Vertical evacuation refuge structures must be designed for tsunami load effects, including seismic-resistant, debris-impact resistant, and progressive collapse-resistant design features, which will require additional strength and ductility compared with normal structures.⁴³⁵

To qualify for HMGP, HMGP Post Fire or BRIC assistance, a tsunami vertical evacuation structure must be designed and constructed to:

- Provide immediate life-safety protection in the projected impact area of a tsunami.
- Meet or exceed the requirements and recommended criteria in FEMA P-646 and the latest published edition of ASCE/SEI 7 and is verified by a licensed design professional. The design must also be peer reviewed by an independent, qualified peer reviewer who is approved by the authority-having jurisdiction.
- Designed and sized only to the extent necessary for the limited population that must take refuge in the tsunami impact strike/inundation area. The refuge structure is also designed for the limited time period that a tsunami is occurring. Therefore, tsunami vertical evacuation refuge structures must be sized according to the defined population that will use the facility during the event, and the design is to accommodate this population for a limited period.

In addition, all tsunami vertical evacuation refuge projects in flood hazard areas must also comply with local floodplain regulations and be permitted by the local floodplain administrator.⁴³⁶

⁴³⁵ [FEMA P-646](#)

⁴³⁶ [44 CFR § 60.3](#)

G.1.6. Environmental and Historic Preservation

All subapplications submitted to FEMA must meet the EHP criteria in [Part 4](#). All subapplications must provide the information described in [Part 6](#) so that FEMA may perform the EHP review.

G.2. Tsunami Vertical Evacuation Refuge: Application and Submission Information

All subapplications submitted to FEMA must meet the eligibility criteria in [Part 4](#). All subapplications must have a scoping narrative in accordance with [Part 6](#). Project-specific criteria are highlighted below.

FEMA may request additional information after the subapplication has been submitted to ensure all necessary information is received. However, all information required by the regulations and the HMA Guide must be received before an assistance decision and award or final approval can be made.

The subapplication must include the following identification of the impacted population:

- Documentation on the composition, size and rationale for including each group designated as an impacted population.
- Description of warning capabilities, logistics and operation components that support basic refuge functions.
- Documentation that demonstrates how the designated population would reach the refuge within the prescribed time limit after notification as required by FEMA P-646.
- If land acquisition is proposed, the current value of property and documentation demonstrating how the market value was determined.
- Description of the approach the subapplicant will use in preparing the operations and maintenance plan, including all the following components:
 - A description of the maintenance procedures.
 - A brief statement about the operation of the refuge when it is in use.
 - Basic information about how the refuge will be used, including how use is initiated, the warning system, and basic procedures for opening refuge to the public.
 - Key components of the refuge maintenance procedures.
 - The office that will be responsible for the operations and management of the refuge.
 - Assurance that the operations and management plan will be developed and completed before project closeout.

G.2.1. Property Location

All subapplications must include latitude/longitude to the nearest sixth decimal place, site photographs, site maps and project plans and specifications.

Property information must also include the estimated furthest distance from the refuge to the population it is intended to serve and travel times by car and foot to reach the refuge. Travel times must account for travel within the structure itself to reach the top.

G.2.2. Clear Title

If property acquisition is proposed, the subrecipient must conduct a title search for the property it plans to acquire. The purpose of the title search is to ensure the owner is the sole and actual titleholder to the property, to identify other persons with a property interest if the owner is not the sole and actual titleholder and to ensure the title is clear (i.e., no mortgages or liens are outstanding on the sale of the property).

Prior to the purchase of the property, the subapplicant should document the process they will use to gain the necessary state and local approvals to construct a refuge.

Other title-related requirements are as follows:

- A title insurance policy demonstrating the clear title must be obtained for each approved property that will be acquired.
- A physical site inspection for each property must be conducted to verify there are no physical encumbrances to the property (a site survey may be necessary to clearly establish property boundaries).
- The property title must be transferred by a warranty deed in all jurisdictions that recognize warranty deeds.
- The subrecipient must take possession at settlement.
- The subrecipient must record the deed at the same time as settlement along with any program deed restrictions.
- The deed transferring title to the property and the program deed restrictions will be recorded according to state law and within 14 calendar days after the settlement.

G.2.3. Budget

All subapplications must include a line-item breakdown of all anticipated costs. Refer to [Part 6](#) for more information.

Vertical evacuation structures require more strength and ductility than “typical” structures to ensure they will function after a seismic event and potential tsunami inundation. Consequently, it is

expected that the cost to construct a tsunami vertical evacuation refuge will be higher than for standard structures. According to FEMA P-646, the cost to construct a vertical evacuation structure is likely to be 10 to 20% greater than a standard structure to account for the required seismic- and tsunami-resistant design features. However, relative costs will depend on geographic location, site-specific features and the specific hazard conditions.

Applications for vertical evacuation refuge projects must include detailed line-item costs in the project budgets. Well-documented project budgets contain quantities, unit costs and a source for each unit cost. In contrast, lump-sum budgets do not provide quantities and unit costs required to evaluate the accuracy of the project budget. Lump-sum estimates are not acceptable.

Under HMGP, HMGP Post Fire and BRIC, project budgets include unit costs related to the proposed square footage of the protected area or areas of the vertical evacuation structure. Unit costs may also be related to the protected population (occupants) of the vertical evacuation structure.

Subapplicants may apply for subrecipient management costs to cover administrative costs. Management costs must be included in the subapplication budget as a separate line item. More information about the requirements for management costs requests can be found in [Part 13](#).

G.2.3.1. Value of the Property

For property identified for acquisition, the subrecipient shall establish and document a property value based on market value, which is defined as:

The amount in cash, or on terms reasonably equivalent to cash, for which in all probability the property would have sold on the effective date of the valuation, after a reasonable exposure time on the open competitive market, from a willing and reasonably knowledgeable seller to a willing and reasonably knowledgeable buyer, with neither acting under any compulsion to buy or sell, giving due consideration to all available economic uses of the property at the time of the valuation.⁴³⁷

The current market value reflects the property value at the time of purchase.

The following appraisal methodology must be used to determine property value:

- The appraisal must be conducted by an independent appraiser and certified by a responsible official of the recipient or subrecipient in accordance with The Appraisal Foundation's [Uniform Standards of Professional Appraisal Practice](#).
- The appraiser must comply with relevant state laws and requirements and have the appropriate certification, qualifications and competencies based on the type of property being appraised.

⁴³⁷ As defined by the [Uniform Appraisal Standards for Federal Land Acquisitions](#) (2016).

G.3. Tsunami Vertical Evacuation Refuge: Subaward Implementation

The following are basic steps in implementing an approved tsunami vertical evacuation refuge project:

1. Pre-construction (acquire land, if applicable, or obtain rights to use existing buildings/infrastructure for development of a tsunami vertical evacuation structure; carry out design process; seek technical consultant; prepare cost estimate; obtain construction permits including required environmental permits; hire construction manager/contractor).
2. Hold project kickoff meeting.
3. Prepare site for construction.
4. Install new foundations or improve of existing foundations.
5. Construct new structure or modify existing structure in accordance with designs.
6. Pass inspections.
7. Achieve substantial completion of construction.
8. Obtain certificate of occupancy.

Post-award monitoring helps ensure that subapplicants/subrecipients are achieving the objectives of the federal award consistent with the performance goals and milestones described in the subaward. To assist the recipient in monitoring tsunami vertical evacuation refuge projects, the following milestone information or events should be included in Quarterly Progress Reports:

- If the subrecipient is acquiring contract support, the subrecipient should report when the request for proposal is completed, when the contract is out for bid, when the bid period closes, when proposals are reviewed, when the contractor is selected and the date of the kickoff meeting.
- Describe the current status including a summary of:
 - Recent progress and planned work.
 - Risks identified or changes from the milestones/deliverables submitted with the scope of work (e.g., financial concerns, coordination issues with state or local governments and utilities, project management or contracting issues, legal disputes, and significant changes impacting construction activities or timelines such as delays due to weather, materials, procurement or labor issues).
 - When construction has started, is substantially complete or completed.
- If property is purchased, the report should provide property address, purchase price and date.
- Any other milestones that have been identified in the subapplication or agreed to or are required by the recipient.

G.3.1. Budget and Scope of Work Change

Recipients are required to report deviations from budget, project scope or objectives, in accordance with [Part 8](#). Recipients must request prior written approvals from FEMA for certain budget and program plan revisions.⁴³⁸

If the final design is not complete prior to award, once the project is awarded, the design must be finalized by a licensed design professional and verified by an independent, qualified peer reviewer who is approved by the authority-having jurisdiction. Any changes to the scope of work or budget because of completing the final design or to address permitting requirements must be consistent with [Part 8](#). Construction design activities are defined as construction activities for budgeting and scope of work purposes.

G.4. Tsunami Vertical Evacuation Refuge: Closeout

Recipients and subrecipients must closeout projects in a timely manner consistent with [Part 9](#).

In addition to the typical HMA program closeout procedures, closeout of tsunami vertical evacuation projects generally includes:

- Photos of the project site before and after construction.
- Latitude/longitude of the project site to the nearest sixth decimal place.
- A vicinity map, map of the SFHA if applicable, and Tsunami Design Zone map showing the extent of inundation by a Maximum Considered Tsunami, as defined by Chapter 6 of ASCE/SEI 7.
- Certification from a licensed professional engineer or architect that the vertical evacuation refuge structure and all items that contribute to its operation have been constructed to meet or exceed FEMA P-646 and ASCE/SEI 7 requirements.
- Any structural and non-structural design peer review reports as required by the latest published editions of FEMA P-646 and ASCE/SEI 7.
 - The peer review purpose is to have another person review the design and construction documents of the vertical evacuation refuge to ensure it meets FEMA design standards. If issues are found in the design of the tsunami vertical evacuation refuge, it can be addressed and resolved.
 - The peer review must be completed by an independent licensed professional engineer or architect. It cannot be the same design professional providing the design oversight of the tsunami vertical evacuation refuge.

⁴³⁸ [2 CFR § 200.308](#)

- The peer reviewer will review the structural design, occupancy, means of egress, access and accessibility, fire safety and essential features of the tsunami vertical evacuation refuge.
- An operations and maintenance plan that includes, at a minimum:
 - How the vertical evacuation refuge will open after a warning.
 - How the vertical evacuation refuge will operate, including a plan for pets.
 - Type and quantity of stocked supplies and where they will be stored.
 - How people will leave the refuge when the threat is over.
 - A regular maintenance plan.
- Information demonstrating that the completed project will be maintained to achieve the proposed hazard mitigation.
- A description of the post-closeout maintenance activities that will be undertaken to maintain the refuge.
- The period of time the community is committing to maintain the refuge, which must be consistent with the project useful life in the BCA.
- The department and job position that will be responsible for the refuge.
- Estimated costs for annual maintenance of the refuge.
- The schedule for completion of the maintenance activities.

HMA Grant Closeout Field Guides and Closeout Checklists can be found on FEMA's "[HMA Monitoring and Closeout Guidance](#)" webpage.

G.5. Tsunami Vertical Evacuation Refuge: Resources



Tsunami Vertical Evacuation Refuge Resources

- FEMA BCA: <https://www.fema.gov/grants/guidance-tools/benefit-cost-analysis>
- FEMA EHP review job aids: <https://www.fema.gov/grants/guidance-tools/environmental-historic/preparation-resources>
- FEMA P-646, *Guidelines for Design of Structures for Vertical Evacuation from Tsunamis*: https://www.fema.gov/sites/default/files/documents/fema_rsl_guidelines-for-design-of-structures-for-vertical-evacuation-from-tsunamis_050925.pdf

- ASCE/SEI 7 (latest published edition): <https://www.asce.org/communities/institutes-and-technical-groups/structural-engineering-institute/asce-7-and-sei-standards/>
- Tsunami geodatabase: <https://asce7tsunami.online/>

H. Safe Room

HMGP, HMGP Post Fire and BRIC may provide assistance for residential and community safe rooms for tornadoes and hurricanes. Safe rooms provide immediate life-safety protection for a limited population that cannot evacuate out of harm's way before an event. Safe room projects include retrofits of existing facilities and new safe room construction. Assistance can be used for both single- and multi-use facilities.

HMGP, HMGP Post Fire, and BRIC assistance may only be used for safe room projects designed to achieve “near-absolute protection” as described in the latest published edition of [FEMA P-361](#). Any lower threshold of protection exposes safe room occupants to a greater degree of risk than is acceptable. [FEMA P-320](#) provides guidance and prescriptive plans for residential safe rooms, but refers to FEMA P-361 for the criteria. Therefore, the HMA Guide uses FEMA P-361 as the basis for safe room design requirements.

Safe rooms may also be designated to serve as recovery shelters, but only the hazard mitigation activities required for the safe room functionality component will be eligible for HMGP, HMGP Post Fire or BRIC assistance. Assistance is not available for facilities that will solely be used as general population shelters, including evacuation and recovery shelters. Safe rooms and general population shelters are different in two ways. First, general population shelters are generally not intended to withstand extreme wind events and therefore do not provide near-absolute protection consistent with residential and community safe room criteria in FEMA P-361. Also, general population shelters are intended to provide longer-term services and housing for people who have left the anticipated impact area after a disaster event; safe rooms are intended to provide protection for a minimum of two hours in tornado events and 24 hours in hurricane events.

The planning and operation of HMGP, HMGP Post Fire and BRIC safe rooms must not conflict with state and/or local evacuation plans. BRIC, HMGP and HMGP Post Fire safe room projects must not be used as a substitute for, or as an option for individuals to ignore, local community and/or state evacuation plans or any other law or ordinance.

When there is sufficient warning time in extreme wind events, such as hurricanes, the general population can be expected to leave the area of anticipated immediate impact and seek shelter outside of the impacted area. Therefore, for hurricane threats, FEMA considers providing assistance only for safe room projects designed for populations the state, local community and/or other authorities having jurisdiction indicates cannot remove themselves from harm's way before a hurricane that is anticipated to make landfall. This should normally be limited to first responders and continuity of operations essential staff; in rare geographic circumstances (such as island states or territories where vehicle access to the continental U.S. by roadway is not available) it may include populations that cannot evacuate. The applicant and subapplicant must provide a basis for the intended population.

In extreme wind events, such as tornadoes, there may be little or no warning to allow the general population to leave the area of immediate impact, and they must, therefore, seek immediate life-

safety protection. Little or no warning limits the potential occupancy of tornado residential and community safe rooms to the people who are on-site or nearby.

H.1. Safe Room: Eligibility

FEMA requires applicants and subapplicants to design and site all hurricane or tornado saferoom projects in accordance with the latest published edition of FEMA P-361 and [ICC 500](#), as minimum design criteria. The scope of work narrative must clearly state the hurricane or tornado saferoom will be designed to meet or exceed FEMA Funding Criteria, which are more conservative than code and standard minimum requirements provided in [FEMA P-361](#).

H.1.1. Eligibility Criteria

FEMA will consider an extreme wind event hazard mitigation activity, consisting of the retrofit or construction of a residential or community safe room (single- or multi-use), to be an eligible project type for HMGP, HMGP Post Fire and BRIC if:

- The safe room project provides immediate life-safety protection in the projected impact area of a hurricane and/or tornado.
- The safe room project is designed and constructed to meet or exceed the requirements in the latest published edition of FEMA P-361 and ICC 500 and is verified by a licensed design professional.
- The safe room project is not sited in FEMA-designated SFHAs, or if the saferoom project is located in a FEMA-designated SFHA area or the 500-year flood hazard area, but the 8-Step Decision Process was successfully completed for [Executive Order \(EO\) 11988](#) on *Floodplain Management* (May 24, 1977), as provided by [44 CFR § 9.6](#) (i.e., the consultation with the local and state emergency management officials led to the conclusion that there is no other feasible option than having the safe room project sited in an SFHA or the 500-year flood hazard area, as outlined in FEMA P-361).⁴³⁹ For structures in the SFHA at the completion of the project, flood insurance must be maintained for the life of the property.⁴⁴⁰ For more information, refer to [Part 4.I](#).
- The lowest floor of a residential or community safe room project must be elevated to the requirements of P-361 FEMA Funding Criteria or the authority having jurisdiction, whichever is higher.
- The safe room is designed and sized only to the extent necessary for the limited population that must remain in the impact strike area during an extreme wind event.

⁴³⁹ FEMA P-361

⁴⁴⁰ [42 U.S.C. § 4012a\(a\)](#)

- The safe room is designed to accommodate occupants for a minimum duration time frame as required in [FEMA P-361](#). Safe rooms must be sized according to the defined population that will use the facility during a storm event.
- Project costs are directly related to and necessary for the hazard mitigation purpose of providing immediate life-safety protection through the structure and the building envelope for the limited population required to remain in the impact area during an extreme wind event.
- For community saferooms, the subapplicant develops an operations and maintenance plan. At a minimum, the process to include operations and maintenance plans includes the following:
 - Descriptive statement of the operations and maintenance plan at the time of the application along with a statement of assurances that the operations and maintenance plan will be developed during project implementation.
 - Final operations and maintenance plan prior to project closeout.
- The safe room project demonstrates cost effectiveness.
- The safe room project complies with all relevant EHP regulations.
- The jurisdiction is participating in the NFIP if the safe room is sited within the SFHA.
- The safe room project adheres to other program conditions as described in the HMA Guide.

H.1.2. Eligible Activities

[Table 24](#) highlights eligible safe room activities.

Table 24: Eligible Safe Room Activities

<i>Eligible Activities</i>	HMGP	HMGP Post Fire	BRIC	FMA
Hurricane residential safe room	Yes	Yes	Yes	No
Hurricane community safe room	Yes	Yes	Yes	No
Tornado residential safe room	Yes	Yes	Yes	No
Tornado community safe room	Yes	Yes	Yes	No

H.1.2.1. Populations Served by the Safe Room

FEMA will only consider subapplications for safe room projects that identify the safe room population that must remain behind or will not have time to leave and faces an imminent threat of a tornado, hurricane or both. The applicant or subapplicant will identify and quantify this population so the safe room’s size can be verified during the subapplication review process. The size of the safe room is

demonstrated by risk assessment information, such as information that is developed as part of a mitigation plan or evacuation plan.

The following information provides details to help applicants and subapplicants identify, quantify and document eligible populations needing hazard mitigation life-safety protection during extreme wind events. This section further describes categories of populations that are affected by tornadoes, hurricanes or both.

At a minimum, the applicant will demonstrate consideration of the following components in determining the eligible safe room population:

- Population to be protected within the area of impact by tornado and/or hurricane hazards.
- Warning capabilities, logistics and operation components that support basic safe room functions.
- Travel times and routes for the population to be protected to reach the safe room so that people are not exposed to additional risk when moving to the protected area.
- Hazard mitigation time of protection: minimum of two hours for tornadoes and 24 hours for hurricanes.
- Relationship of the population to be protected by the safe room to state or local emergency evacuation requirements.
- Effective and accessible warnings (alerts) that address the needs of individuals with disabilities and other access and functional needs and/or individuals who have limited English proficiency.

Community safe rooms are intended for a limited population, but the criteria for tornadoes and hurricanes differ in certain applications. When the limited population for tornadoes and hurricanes is identified, the respective hazard mitigation activities must be considered separately and then combined (if both exist) using the most conservative requirements between the two. A combined safe room will have to comply with the larger square footage area per person and longer protection and with the more stringent debris impact protection. Characteristics such as the size of the targeted area, the warning time before the impact, and the duration of the storm affect the population requiring protection differently; therefore, the impacted population must be determined for each type of event.

Applicants and subapplicants must provide documentation to support the identified population for the safe room and must also submit adequate documentation in support of their risk assessments to allow grant program reviewers to determine whether the proposed safe room size is appropriate for the identified population. The documentation should be sufficiently detailed to be verified during the subapplication review process. Applicant and subapplicant coordination with the applicable federal, state or local (if applicable) agency responsible for developing emergency action plans is critical. In general, emergency response plans, evacuation plans, area maps, building construction drawings and meeting notes that can be used to quantify the population are acceptable. In addition, local or

federally recognized tribal mitigation plans are required to describe the susceptibility of the community (especially high-risk populations) and structures, and they may also be sources for this information. The following sections identify issues to consider when applying for assistance for a hurricane, tornado or combined hazard community safe room. Applicants and subapplicants should select the most appropriate population for their safe room project using the steps described in the sections that follow.

H.1.2.1.1. Population Impacted by Hurricanes

Determining the hurricane safe room population depends on the assumptions used in the evacuation or emergency response plans and policies being administered by federal, state and local emergency management organizations. Therefore, applicants and subapplicants are encouraged to coordinate with the relevant agency in the jurisdiction that developed the plans. In addition, local or federally recognized tribal mitigation plans are required to include a risk assessment that defines the hazard characteristics within an area and the specific needs for the affected population. Evacuation plans are likely to be more specific in terms of population, but the risk assessment in a community's existing mitigation plan may also be a source for this information. Documentation to support the determination of the impacted population may be directly related to the planning tools mentioned above and should be included in the subapplication.

H.1.2.1.1.1. Hurricane Population Categories

Generally, two broad categories of potential hurricane safe room occupants may be identified as part of the limited population in need of life-safety protection: (1) first responders and continuity of operations essential staff and, in rare circumstances, (2) populations on island states or territories where vehicle access to the continental United States by a roadway is not available.

The impacted population must be accommodated within the safe room for a minimum of 24 hours (the [FEMA P-361](#) minimum design occupancy time for hurricane safe rooms). Applicants and subapplicants are encouraged to use verifiable information, such as emergency evacuation plans and local emergency management plans (or other applicable sources), to identify potential safe room occupants from the categories listed below.

Category 1: First Responders, Critical and Essential Services Personnel, and Facility Occupants

The civilian personnel of emergency response services, also known as first responders, may be required to remain in harm's way. First responders include but are not limited to fire and police department personnel, rescue squads, emergency operations center personnel, emergency medical and ambulance service providers, search and rescue teams, and similar personnel whom a local community may depend upon for a successful response to an extreme wind event.

In many cases, other critical services personnel may be required to remain in harm's way to facilitate the continued operation of certain critical facilities, including material storage facilities, communications and data centers, and others that a local community may depend on for a successful response to an extreme wind event.

Category 2: Individuals Who Cannot Evacuate

This category may include occupants of facilities, such as patients in hospitals, residents of long-term care facilities and other occupants for which evacuation would be detrimental to their well-being. This category could also include prison populations that are unable to be evacuated safely, populations on island states or territories where vehicle access to the continental U.S. by a roadway is not available and who do not have the option to evacuate, or other vulnerable populations that cannot be easily moved.

H.1.2.1.1.2. Hurricane Travel Time Considerations

The issues to consider in estimating travel time to the safe room facility include local emergency management and law enforcement requirements, mandatory evacuations, evacuation times from the anticipated area of impact, and any other plans that affect the movement of at-risk populations. Further information is provided in FEMA P-361.

Occupants of one- and two-family dwellings with a residential safe room that meets the siting and elevation requirements in FEMA P-361 are assumed to use that room and require no evacuation and minimal travel time unless evacuation has been deemed mandatory by the authority having jurisdiction.

H.1.2.1.1.3. Hurricane Period of Protection

As identified in [FEMA P-361](#), the hazard mitigation time of protection for safe rooms is a minimum of 24 hours for hurricane events. Therefore, any ancillary equipment required to operate during an event for the safe room must also be properly sized and protected to the same level as the safe room.

H.1.2.1.1.4. Coordination with State/Local/Tribal/Territorial Evacuation Plans

In all cases, planning and operation safe rooms, including the identification of the population to be protected, must not conflict with state, local, tribal and/or territorial evacuation plans.

Safe room activities must not be used as a substitute or as an option for individuals to ignore state, local, tribal and/or territorial evacuation plans or any other law or ordinance.

H.1.2.1.1.5. Hurricane Warning Capabilities

In addition to design and construction criteria, an accessible and effective warning system must be in place to notify prospective community safe room occupants when they should evacuate to the safe room facility. Applicants and subapplicants for community safe room projects must demonstrate that the population can be properly notified to allow sufficient travel time to the community safe room.

H.1.2.1.1.6. Population Impacted by Tornadoes

Populations impacted by tornadoes are generally limited to the family or group of families who live in the dwelling or dwellings served by the safe room, workers or students who have access to a safe room at their place of business or school and individuals who have access to an on-site community safe room. Because of the short period between tornado identification and impact, these at-risk populations must be close to the safe room to benefit from it.

Tornado safe room populations are determined based on limited warning times (i.e., minutes) and the maximum reasonable travel time for potential safe room occupants to reach the safety of the facility. The populations that cannot reach the safe room within a reasonable time are not considered as potential occupants of the safe room.

The following two aspects of higher risk should be considered when identifying and quantifying the population impacted by a tornado:

- The physical characteristics of the built environment (buildings or other structures) in which the population resides. Because buildings differ in their susceptibility to damage from a tornado, building occupants are exposed to varying risks of injury or death. Individuals living in non-engineered, older and/or manufactured housing are more susceptible to catastrophic damage from a tornado.
- The ability of the population to mobilize to the safe room during a tornado, regardless of where they are located. Children and adults with disabilities and others with access and functional needs may require a greater level of assistance, time to mobilize and attention during an emergency. These considerations should be factored into planning.

H.1.2.1.1.7. Tornado Travel Time Considerations

The most effective tornado safe rooms minimize occupant travel time. Consequently, on-site community safe rooms, built either as integral parts of a building or as separate structures, offer the greatest level of protection to occupants. Community safe rooms in hospitals, schools, long-term care centers and other facilities that house highly susceptible populations are the most successful in minimizing the risks. These safe rooms may be designed to serve the community-at-large in addition to on-site residents. In such cases, the population of the safe room is limited by the proximity of potential occupants to the safe room, which is defined by the maximum allowed travel time and/or the maximum distance to the safe room.

The distance from the safe room for the at-risk population is based on a maximum walking travel time of five minutes, or 0.25 miles, or a maximum driving travel distance of approximately 0.5 miles. When considering a single- or multi-use community safe room, the five-minute walk time or the equivalent 0.5-mile driving distance must be calculated by the actual travel route or pathway that a pedestrian or a driver will be required to follow. Where intended occupants are coming from nearby buildings (e.g., school or hospital campuses with multiple buildings), a maximum distance of 1,000 feet between occupant-source buildings and the safe room entrance is recommended to allow time

for egressing the occupant-source buildings. A 1,000-foot maximum distance from not fewer than one exterior door of each building to a door of the shelter serving that building may be required by building code for newly constructed safe rooms in some areas.

The pathway must not be restricted, bottlenecked or obstructed by barriers such as multilane highways, railroad tracks, bridges or similar facilities or by topographic features. Traffic congestion (including parking constraints) during the movement of the potentially affected population to the safe room once a storm watch/warning notification is issued should be considered when defining the limited population for the community safe room. In either case, whether walking or driving, prospective safe room occupants must be able to safely reach the facility within five minutes of receiving a tornado warning or notice to seek shelter.

H.1.2.1.1.8. Tornado Period of Protection

As identified in [FEMA P-361](#), the occupancy duration in a tornado safe room is a minimum of two hours for a tornado event. Therefore, any ancillary equipment required to operate during an event for the safe room must also be properly sized and protected to the same level as the safe room.

H.1.2.2. Safe Room Sizing Criteria

The identified population directly affects the proposed safe room design size and is verified during the subapplicant review process. HMGP, HMGP Post Fire and BRIC assistance is provided only for the minimum size required to accommodate the identified population; costs for space that exceed the allowable size must be fully funded by non-FEMA sources and cannot be counted toward the federal cost-share of the award. HMA program safe room project subapplications are subject to usable floor area per occupant space requirements and size limitations identified in the design criteria noted in this section. [Table 25](#) identifies the minimum required usable floor area per safe room occupant consistent with FEMA-recognized design criteria.

Table 25: HMA Safe Room Minimum Usable Floor Area per Safe Room Occupant⁴⁴¹

Types of Safe Room	Occupant	Minimum Usable Floor Area per Occupant* (square feet)
Tornado community safe room	Standing or seated	5
	Wheelchair user	10
	Relocated to a bed or stretcher	30
Hurricane community safe room	Standing or seated	20
	Wheelchair user	20

⁴⁴¹ Based on criteria from FEMA P-361 published April 2021. Verify requirements in most recently published edition of FEMA P-361.

Types of Safe Room	Occupant	Minimum Usable Floor Area per Occupant* (square feet)
	Relocated to a bed or stretcher	40
Tornado residential safe room	One- and two-family dwelling	3
	Other residential	5
Hurricane residential safe room	One- and two-family dwelling	7
	Other residential	10

* For community safe rooms, at least one wheelchair user-sized space is required for every 200 occupants or portion thereof.

In addition to the square footage requirement per person, applicants and subapplicants must consider the normal functional use of the area. The type of durable medical equipment and furniture in the dual-purpose safe room will determine how to calculate the net usable area, which is the available area to be used by the occupants after reducing the non-usable area from the gross area.

For example, a community may decide to build a multi-use facility that includes a tornado safe room function in a community center. The new facility may include an assembly or multipurpose room that has 1,185 square feet. To use the space as a community tornado safe room, the gross square footage must be reduced to account for egress circulation, partitions, interior columns, furnishings, finishes, equipment and other features. The calculation may be exact or estimated using the methodology in FEMA P-361. For this example, the area is considered an open floor plan, and only 85% of the gross area can be considered net usable area for the occupants seeking shelter. Using 85% of the gross square footage as usable square footage, the 1,185 square feet is reduced to 1,007 usable square feet:

$$1,185(0.85) = 1,007 \text{ square feet}$$

According to [FEMA P-361](#) design criteria, a minimum of 5 square feet per safe room occupant must be provided in a tornado community safe room (refer to [Table 25](#)). In this example, safe room designers must also account for the use of durable medical equipment (e.g., wheelchairs, walkers or hospital beds).

A tornado community safe room must be sized to accommodate a minimum of one wheelchair space (at 10 square feet) for every 200 occupants or portion thereof. Therefore, the 1,007-square-foot usable floor area would provide enough space to protect 200 occupants (refer to [Table 26](#)) and would be eligible for HMGP, HMGP Post Fire and BRIC assistance. It would not be reasonable for an application in this example to include a request for usable square footage of 2,000 square feet because that amount of space has not been demonstrated as being necessary for an identified at-risk population of 200 occupants.

Table 26: Example Community Safe Room Size

Occupants	Required Square Feet per Person	Total Square Footage of Usable Floor Area
199 occupants	5	995
One occupant in wheelchair	10	10
Total 200 occupants	-	1,005

Applicants and subapplicants should refer to FEMA P-361 for further information on sizing criteria.

H.1.2.3. Flood Hazard Siting and Elevation Limitations

To be considered for assistance, HMGP, HMGP Post Fire and BRIC safe room projects must include maps or other documentation that identify the project location relative to the floodplain and meet FEMA funding criteria, flood hazard siting limitations and elevation requirements in FEMA P-361.

Except in special circumstances, safe rooms should not be sited in FEMA-designated SFHAs unless consultation with state and local emergency management officials concludes there is no other feasible option. If it is not possible to locate a safe room outside of the SFHA, precautions must be taken to ensure the safety and well-being of anyone using the safe room. If a saferoom is sited in a SFHA, there are additional design and siting requirements, such as elevation, that must be addressed. Refer to the latest published edition of [FEMA P-361](#) for design and siting criteria.

H.1.2.4. Americans with Disabilities Act Compliance for Community Safe Rooms

The needs of the whole community requiring safe room space must be considered. Safe room construction should integrate considerations for:

- Proximity of location to affected populations.
- The size of the safe room.
- Egress/ingress of the safe room to accommodate the affected populations.
- Ensuring facilities within the safe room comply with ADA regulations, such as toilets or hand-washing stations.
- Accessible alerts and warnings.
- Appropriate access for persons with disabilities, which must be provided in accordance with all federal, state and local ADA requirements and ordinances.

Safe room subrecipients should be aware that accessibility provisions of the applicable code may exceed the minimum requirements of the ADA. For example, provisions for accessible routes

connecting multistory buildings in Section 1104.4 of the 2021 IBC are more extensive than similar criteria in the ADA.

H.1.3. Ineligible Activities

HMGP, HMGP Post Fire and BRIC assistance is not available for facilities that will solely be used as general population shelters, including evacuation and recovery shelters. The emergency management measures necessary to afford protection to thousands of occupants of large, public venues, such as stadiums or amphitheaters, are beyond the scope of HMGP, HMGP Post Fire and BRIC community safe rooms; therefore, general population shelters are not eligible for assistance under HMGP, HMGP Post Fire or BRIC.

A general list of ineligible activities is included in [Part 4](#).

H.1.4. Operations and Maintenance Plans for Community Safe Rooms

To be considered for assistance, HMGP, HMGP Post Fire and BRIC community safe room project subapplications must include a written statement acknowledging the requested community safe room will be operated and maintained in a manner that achieves the proposed hazard mitigation. FEMA will only consider operations and maintenance plans that have considered the guidance in FEMA P-361. Operations and maintenance plans are not required for residential safe rooms.

Community safe rooms are built and operated to provide immediate life-safety protection during extreme wind hazards. To achieve this purpose, community safe rooms must be built to the design criteria and be operated and maintained so that they are able to provide intended occupants with the timely protection and services that they need. Subapplicants must provide an operations and maintenance plan statement of assurances with the safe room project subapplication acknowledging the requested community safe rooms will be operated and maintained in a manner that achieves the proposed hazard mitigation.

The steps in meeting the operations and maintenance plan requirements are as follows:

1. The subapplicant develops a description of the operations and maintenance plan that includes an assurance that the plan will be developed during project implementation and includes the description in the subapplication. The operations and maintenance plan description must include:
 - a. A description of the maintenance procedures.
 - b. A brief statement about the operation of the safe room when it is in use.
 - c. Basic information about how the safe room will be used, including how use is initiated, the warning system, and basic procedures for opening the doors to the public.
 - d. Key components of the safe room maintenance procedures.

- e. The office that will be responsible for the operations and maintenance of the safe room.
 - f. Assurance the operations and maintenance plan will be developed and completed before project closeout.
2. The subrecipient develops the operations and maintenance plan.
3. Prior to closeout, the recipient and FEMA review the subapplicant's final signed operations and maintenance plan. The community safe room inventory in the operations and maintenance plan must include essential equipment and supplies, such as communications equipment, emergency equipment, first-aid supplies, water and sanitary supplies.

H.1.4.1. Development of an Operations and Maintenance Plan

The development of an operations and maintenance plan should be coordinated with the appropriate entities using and operating the community safe room and should be signed by authorized officials in these organizations.

The operations and maintenance plan may be based on preliminary engineering drawings and must include, at a minimum, the components listed below. FEMA P-361 provides guidance and best practices on operations and maintenance plan components. The required components of a plan are summarized below.

H.1.4.2. Operations Components

The operations components of an operations and maintenance plan must include the following, at a minimum:

- Community organization(s) responsible for operating and maintaining the community safe room, such as the local emergency management office, and contact information for the relevant office(s).
- Command and management roles and responsibilities for key individuals, such as the safe room manager and site coordinator, and their essential duties and/or the agency responsible for fulfilling these roles.
- Major tasks that the safe room management team will perform during a tornado/hurricane watch issued by the National Weather Service.
- General operation tasks in the community safe room from the time the emergency is announced to the time occupants may safely leave.

H.1.4.3. Maintenance Components

The maintenance components of an operations and maintenance plan should include assurance from the organization responsible for operating and maintaining the community safe room of the following during the useful life of the community safe room:

- Non-hazard mitigation uses will not prohibit the use of the community safe room to perform its hazard mitigation purpose of life-safety protection (i.e., the safe room will not be used for storage or other activities that would reduce the available occupancy/space).
- A designated party will schedule and perform regular maintenance during the useful life of the community safe room.
- Basic exterior and interior signage will be posted as necessary and appropriate for adequate safe room operations.
- A redundant power source, such as batteries or generators, will be available to provide standby (emergency) power for lighting and ventilation for the community safe room in the event of primary power failure, as required.

H.1.5. Review of Final Operations and Maintenance Plan

FEMA requires that the recipient affirm that the final operations and maintenance plan meets the FEMA P-361 requirements by following the steps below:

1. Review the final operations and maintenance plan to ensure it addresses the operations and maintenance components.
2. Coordinate with the subrecipient to address any missing components.
3. Transmit the final operations and maintenance plan to FEMA with a written statement affirming that it is consistent with FEMA P-361 guidance.

FEMA will review the plan and inform the recipient in writing once it has determined that the final plan has all the required components. FEMA's comments on the final operations and maintenance plan must be addressed before FEMA makes a final determination of consistency. Recipients not completing a final operations and maintenance plan at closeout will be subject to the recoupment of award assistance as determined by FEMA.

H.1.6. Cost Effectiveness

Applicants and subapplicants must demonstrate that hazard mitigation projects are cost-effective. Projects must be consistent with [Part 5](#).

HMGP, HMGP Post Fire and BRIC safe room project subapplications must demonstrate project cost effectiveness using one of the methodologies described in [Part 5](#). Pre-calculated benefits may only be used for tornado residential safe rooms.

This section discusses the total project costs required to demonstrate compliance with cost-effectiveness requirements. The total project cost for BCA purposes is the sum of all eligible costs necessary to achieve life-safety protection. Eligible project costs generally include:

- Design activities.
- Site preparation and building foundation materials and construction.
- Structural systems capable of resisting the design wind loads (including roof and wall framing).
- Protective envelope components such as walls, ceiling/roof systems and impact protective systems (doors, shutters).
- Other retrofit hardening activities that meet FEMA-approved performance criteria.
- Functional components such as permanent electrical lighting, heating, ventilation, air conditioning, and toilets and hand-washing facilities consistent with FEMA P-361 criteria; fire suppression sprinkler systems; and signage, emergency communications equipment and backup power generation for the safe room area.
- Operations and maintenance plan development.
- Costs associated with the acquisition of land.

In some cases, the total project cost of a safe room for a large community may exceed HMGP, HMGP Post Fire or BRIC limits. In these cases, the actual total project cost must be used in the BCA. The program funding limit (which would be less than the actual project cost) may not be used as the total project cost entered into the BCA. Similarly, some applications may not request HMGP, HMGP Post Fire and BRIC assistance up to the available federal cost share. In these cases, the BCA must still use the sum of all required (not just requested) costs necessary to achieve the hazard mitigation purpose of immediate life-safety protection.

H.1.6.1. Tornado Residential Safe Room Pre-Calculated Benefits

Tornado residential safe rooms have different requirements than community tornado safe rooms. Unlike community safe rooms, tornado residential safe room construction projects may use pre-calculated benefits to demonstrate cost-effectiveness methodology.

Applicants must use the Expedited HMGP Application for Residential Safe Rooms to apply for pre-calculated benefits under HMGP and HMGP Post Fire. The pre-calculated benefit provides standardized BCA benefit values associated with residential safe rooms so that individual BCAs are not required as long as the project costs do not exceed the benefits. A safe room that costs less than the value indicated for the state where it is located is automatically considered cost-effective. For subapplications that contain multiple structures, the average cost of all structures in the project

must be less than the value provided below. For additional information, refer to the [Safe Room Project Application Using Pre-Calculated Benefits](#) FEMA job aid.

For up-to-date information on the dollar value of the pre-calculated benefit, refer to FEMA's "[How to Complete a Streamlined BCA](#)" webpage.

H.1.7. Feasibility and Effectiveness

Projects must be consistent with [Part 4](#). Hazard mitigation projects assisted by HMA must be both feasible and effective at mitigating the risks of the hazard(s) for which the project was designed. A project's feasibility is demonstrated through conformance with accepted engineering practices or established codes, standards, modeling techniques or best practices.

H.1.7.1. Codes and Standards

To qualify for HMGP, HMGP Post Fire or BRIC assistance, a safe room must be designed and constructed to meet the requirements and FEMA funding criteria in FEMA P-361 (refer to Appendix D). Applicants must submit documents that include a statement that safe room design conforms to the provisions of the latest published edition of ICC 500 and the latest published edition of [FEMA P-361](#).

H.1.8. Environmental and Historic Preservation

All subapplications submitted to FEMA must meet the EHP criteria in [Part 4](#). All subapplications must provide the information described in [Part 6](#) so that FEMA may perform the EHP review.

To assist with the EHP review, FEMA has prepared a Programmatic Environmental Assessment to help project application developers and reviewers streamline the evaluation of potential impacts to the human environment resulting from the construction of residential and community safe rooms that are proposed for HMGP, HMGP Post Fire or BRIC assistance. The Programmatic Environmental Assessment provides the public and decision-makers with helpful information necessary to understand and evaluate the potential environmental consequences of these hazard mitigation actions and helps streamline the National Environmental Policy Act review process.

The *Safe Rooms–Required Information for EHP Review* FEMA job aid lists the documentation needed for FEMA to complete the EHP compliance review process for projects.

H.2. Safe Room: Application and Submission Information

All subapplications submitted to FEMA must meet the eligibility criteria in [Part 4](#). All subapplications must have a scoping narrative in accordance with [Part 6](#). Project-specific criteria are highlighted below.

FEMA may request additional information after the subapplication has been submitted to ensure all necessary information is received. However, all information required by the regulations and the HMA Guide must be received before an assistance decision and award or final approval can be made.

The subapplication must include the following identification of the impacted population:

- Documentation on the composition, size and rationale for including each group designated as a disproportionately impacted population.
- Description of warning capabilities, logistics and operation components that support basic safe room functions.
- Documentation that demonstrates how the designated population would reach the safe room within the prescribed time limit after notification as required by FEMA P-361 (for tornado residential and community safe rooms).
- If land acquisition is proposed, the current value of property and documentation demonstrating how the market value was determined.
- For community safe rooms, description of the approach the subapplicant will use in preparing the operations and maintenance plan.

H.2.1. Activities and Schedule

As part of the scope of work, all subapplications must include an activities description referencing industry standards or project plans and specifications and a schedule for the project. Additionally, a scope of work must include work activities, deliverables and timelines associated with a project.

H.2.2. Clear Title

If property acquisition is proposed, the subrecipient must conduct a title search for the property it plans to acquire. The purpose of the title search is to ensure the owner is the sole and actual titleholder to the property, to identify other persons with a property interest if the owner is not the sole and actual titleholder and to ensure the title is clear (i.e., no mortgages or liens are outstanding on the sale of the property).

The subapplicant should document the process they will use to gain the necessary state and local approvals to construct a community saferoom, prior to the purchase of the property.

Other title-related requirements are as follows:

- A title insurance policy demonstrating the clear title must be obtained for each approved property that will be acquired.
- A physical site inspection for each property must be conducted to verify there are no physical encumbrances to the property (a site survey may be necessary to clearly establish property boundaries).
- The property title must be transferred by a warranty deed in all jurisdictions that recognize warranty deeds.

- The subrecipient must take possession at settlement.
- The subrecipient must record the deed at the same time as settlement along with any program deed restrictions.
- The deed transferring title to the property and the program deed restrictions will be recorded according to state law and within 14 calendar days after the settlement.

H.2.3. Eligible Costs

Eligible costs for BRIC, HMGP and HMGP Post Fire assisted safe room projects are costs for project components (e.g., design, construction, project management) that are related directly to and necessary for the hazard mitigation purpose of providing immediate life-safety protection by means of the structure and the building envelope to the limited population that must remain in the impact area during an extreme wind event.

For each structure type, eligible project costs are limited to:

- **Protection by design components**, including the safe room envelope and impact protective systems (walls, ceilings, doors, windows, as specified in FEMA P-361, ICC 500 and applicable local building codes).
- **Ancillary components** required by FEMA P-361, including standby (backup) power, communications and emergency electrical lighting limited to within the safe room, as well as protection of ancillary components to the same degree as the safe room.
- **Design and construction components** for safe room portion only, including engineering fees, permit fees, special inspection fees and excavation.
- **Required features** necessary for safe room function and habitation, including ventilation, permanent electrical lighting, and ADA requirements such as accessible toilets and hand-washing stations.

H.2.4. Ineligible Costs

Costs associated with providing facilities for any function that is not essential for life-safety protection of occupants are not eligible. If a safe room facility can fulfill its basic function of life-safety protection for occupants during a storm without a building feature or component that provides conveniences or additional comfort, costs associated with that feature or component are not eligible. Examples are flooring, seating and food preparation facilities. This is a significant issue in multi-use community safe rooms, which are designed to provide other functions that are not eligible for funding.

[Table 27](#) shows examples of eligible and ineligible components of residential and community safe rooms. This table can be referred to when determining whether a component is an eligible cost of a safe room application. Note there are differences in what is considered an eligible cost for a

residential safe room versus a community safe room because of the different scope of the projects. Some items for multi-use safe rooms may be prorated based on safe room-specific occupancy.

Table 27: Eligible and Ineligible Components of Residential and Community Safe Rooms

Building Systems and Components	Residential	Community
Structural systems that directly support or protect the safe room to provide near-absolute life-safety protection	Yes	Yes
Impact protective systems (doors, windows and other opening protection)	Yes	Yes
Protection of backup mechanical, electrical, ventilation and communication equipment necessary to provide life safety for the safe room	Yes	Yes
Safe room signage	Yes	Yes
Communications, including Local Area Network drops and wiring if used for emergency communication during an event	Yes	Yes
Construction permit fees	Yes	Yes
Alternate source of power for the safe room	Yes	Yes
First aid supplies and equipment to meet safe room occupancy requirements	Yes	Yes
Fire suppression systems (sprinklers systems and fire extinguishers)	No*	Yes
Electrical lighting and outlets	Yes	Yes
ADA requirements	Yes	Yes
Ventilation	Yes	Yes
Heating, ventilation and air conditioning used for required ventilation	Yes	Yes
Heating, ventilation and air conditioning not used for required ventilation	No	No
Accessible toilets and hand-washing stations in safe room	No	Yes
Planning/engineering/architecture design fees	Yes	Yes
Engineering study to calculate undefined flood elevations	Yes	Yes
Engineering peer review	Yes	Yes
Site preparation	Yes	Yes
Inspections, including special inspections	Yes	Yes

Building Systems and Components	Residential	Community
Soil test	No	Yes
Storage room for food, water and safety equipment	No	Yes
Purchase of land (market value of the real property [land and structures] at the time of sale)	No	Yes
Fees for necessary appraisals, title searches, title insurance, property inspections, permit fees, and surveys	No	Yes
Fees associated with the title transfer and contract review, and other costs associated with conducting the real estate settlement, including recordation of the deed and deed restrictions	No	Yes
Property tax liens or tax obligations that can be extinguished with proceeds from property sale while performing the transfer of title	No	Yes
Safe room maintenance	No	No
Restroom fixtures not required by code or FEMA P-361	No	No
Paint on walls and ceilings of safe room	No	No
Floor coverings – subfloors not required for life safety	No	No
Removal of structures from developed land	No	No
Kitchen cabinets, countertops and other equipment not required for life safety	No	No
Security cameras and emergency operations center-type equipment	No	No
Landscaping	No	No
Parking and all non-building elements unless required for ADA compliance	No	No

* Eligible if required by local codes

H.2.5. Budget

All subapplications must include a line-item breakdown of all anticipated costs. Refer to [Part 6](#) for more information.

Subapplicants may apply for subrecipient management costs to cover administrative costs. Management costs must be included in the subapplication budget as a separate line item. More information about the requirements for management costs requests can be found in [Part 13](#).

Applications for safe room projects must include detailed line-item costs in the project budgets. Well-documented project budgets contain quantities, unit costs, and a source for each unit cost. In

contrast, lump-sum estimates do not provide quantities and unit costs required to evaluate the accuracy of the project budget. Lump-sum estimates are not acceptable.

HMGP, HMGP Post Fire and BRIC project budgets include unit costs related to the proposed square footage of the protected area or areas of the safe room. Unit costs may also be related to the protected population (occupants) of the safe room.

H.2.5.1. Value of the Property

For property identified for acquisition, the subrecipient shall establish and document a property value based on market value, which is defined as:

The amount in cash, or on terms reasonably equivalent to cash, for which in all probability the property would have sold on the effective date of the valuation, after a reasonable exposure time on the open competitive market, from a willing and reasonably knowledgeable seller to a willing and reasonably knowledgeable buyer, with neither acting under any compulsion to buy or sell, giving due consideration to all available economic uses of the property at the time of the valuation.⁴⁴²

The current market value reflects the property value at the time of purchase. The following appraisal methodology must be used to determine property value:

- The appraisal must be conducted by an independent appraiser and certified by a responsible official of the recipient or subrecipient in accordance with The Appraisal Foundation's [Uniform Standards of Professional Appraisal Practice](#).
- The appraiser must comply with relevant state laws and requirements and have the appropriate certification, qualifications and competencies based on the type of property being appraised.

H.3. Safe Room: Subaward Implementation

The basic steps in implementing an approved HMA safe room project are:

1. Pre-construction (acquire land, if applicable, or rights to modify a portion of an existing structure; carry out design process; seek technical consultant; prepare cost estimate; obtain building permits; hire construction manager/contractor).
2. Before construction begins, obtain copies of submittal documents (e.g., plans and specifications) and peer-reviewed report and quality assurance plan as required to be provided to the authority having jurisdiction (e.g., building official) in accordance with the latest published editions of ICC 500 and FEMA P-361. Note that FEMA funding criteria requires a statement be included with the submittal documents that states the design conforms to (1) the provisions of ICC 500 with the edition year specified and (2) the FEMA funding criteria of FEMA P-361 with the edition year specified.

⁴⁴² As defined by the [Uniform Appraisal Standards for Federal Land Acquisitions](#) (2016).

3. Clear/prepare site and install erosion control measures to prepare for construction activities.
4. Construct or install saferoom in accordance with all guidance and codes.
5. Conduct inspections and obtain certificate of occupancy.
6. Prepare the operations and maintenance plan.

Post-award monitoring helps ensure subrecipients are achieving the objectives of the federal award consistent with the performance goals and milestones described in the subaward. To assist the recipient in monitoring safe room projects, the following information should be included in Quarterly Progress Reports:

- If the subrecipient is acquiring contract support, the subrecipient should report when the request for proposal is completed, when the contract is out for bid, when the bid period closes, when proposals are reviewed, when the contractor is selected and the date of the kickoff meeting.
- Describe the current status including a summary of:
 - Recent progress and planned work.
 - Risks identified or changes from the milestones/deliverables submitted with the scope of work (e.g., financial concerns, coordination issues with state or local governments and utilities, project management or contracting issues, legal disputes, and significant changes impacting construction activities or timelines such as delays due to weather, materials, procurement or labor issues).
- When construction has started, is substantially complete or completed.
- Describe planned and completed peer reviewed and inspection activities.
- If property is purchased, the report should provide property address, purchase price and date.
- Any other milestones that have been identified in the subapplication or agreed to or are required by the recipient.

H.3.1. Budget and Scope of Work Changes

Recipients are required to report deviations from budget, project scope or objectives in accordance with [Part 8](#). Recipients must request prior written approvals from FEMA for certain budget and program plan revisions.⁴⁴³

If the final design is not complete prior to award, once the project is awarded, the design must be finalized by a licensed design professional and verified by a peer review as required by FEMA P-361. Any changes to the scope of work or budget because of completing the final design or to address

⁴⁴³ [2 CFR § 200.308](#)

permitting requirements must be consistent with [Part 8](#). Construction design activities are defined as construction activities for budgeting and scope of work purposes.

H.3.2. Inspection Considerations and Peer Review

Safe rooms must have all required inspection and peer reviews as required in FEMA-361 and ICC 500. Safe rooms have significantly more administrative checks than other HMA projects.

Recipients/subrecipients are encouraged to review code requirements to determine the inspection schedule/requirements throughout the construction process.

The peer review's purpose is for independent design professionals to review design and construction documents of the safe room to ensure it meets FEMA design standards. If issues are found in the design of the safe room, they can be addressed and resolved. The peer review typically involves multiple design professionals to adequately address all architectural and engineering disciplines.

The peer review must be completed by an independent registered design professional; they must not be the design professional providing design oversight of the safe room. The peer reviewer in charge must be hired by the safe room owner or owner's representative. The peer reviewer(s) must disclose any conflicts of interest (financial or otherwise) that could compromise the independence of the review to the authority having jurisdiction and must meet the requirements to be a peer reviewer outlined in [FEMA P-361](#).

The peer reviewer will review the structural design, occupancy, means of egress, access and accessibility, fire safety and essential features of the safe room. Peer review is required to cover ICC 500 Chapters 3, 4, 5, 6 and 7 and Sections 106, 107, 110 and 111. Applicants and subapplicant should review FEMA P-361 and ICC 500 to determine which aspects of the project require peer review. This may require inspections and peer review before, during and after construction.

Following the review, the signed, sealed report must be submitted by the owner or owner's representative to the authority having jurisdiction of the recipient. The report should include detailed descriptions of the items reviewed and a recommendation of acceptance or rejection for each with an explanation provided for rejected items. The recipient will submit the peer review report as part of closeout.

H.4. Safe Room: Closeout

Recipients and subrecipients must closeout projects in a timely manner consistent with [Part 9](#).

The review of the completed saferoom must verify the safe room meets or exceeds FEMA P-361, ICC 500 and ASCE 24 standards that were in force on the award date.

In addition to the typical HMA program closeout procedures, closeout of safe room projects generally includes:

- Documentation that completed projects provide the level of protection approved in the scope of work. This may be included as a part of the required statements and peer review reports to verify compliant design, structural observations and special inspections.
- Photographs of the project site before, during and after construction. Photographs should confirm the scope of work is completed and be taken from the inside of the structure(s) and saferoom(s). For community saferooms, photographs of bathrooms should be included. Photographs may be included in the inspection report.
- Latitude/longitude of each project site and safe room entrance(s) to the nearest sixth decimal place.
- For community safe rooms:
 - When required by FEMA P-361, any structural and non-structural design peer review reports from an independent registered design professional certifying the community safe room is designed to meet or exceed requirements.
 - A final, signed operations and maintenance plan.
 - Photos of the project site before and after construction. Photos should confirm the scope of work is completed.
 - Latitude/longitude of each project site and safe room entrance(s) to the nearest sixth decimal place.
 - A vicinity map and map of the SFHA if applicable.
 - A record of completed structural observations in accordance with ICC 500 and [FEMA P-361](#) that includes:
 - A written statement from the registered design professional who performed the structural observations that the required site visits have been made. The statement must also identify any reported deficiencies that, to the best of their knowledge, have not been resolved.
 - Where special inspections are required, the statement of special inspections.
 - Where safe room construction included changes to specifications in the submittal documents, approved change orders and a final as-built set of construction drawings.
 - A final operations and maintenance plan signed and dated by authorized officials for that community saferoom.
- For residential safe rooms:

- For prefabricated safe rooms: The building official’s approval of installation or signed statement from the installer that the safe room foundation capacity (including thickness, steel reinforcement and concrete cover) and post-installed foundation anchors (locations and capacities) meet or exceed the corresponding design information submitted in accordance with ICC 500 and FEMA P-361.
- For site-built safe rooms: Where FEMA P-320 design plans are constructed, the professional engineer who reviews the selected plan and site conditions is required to sign and seal the design plan page SR0.0 of the prescriptive design plans in FEMA P-320, complete any missing information on page SR0.1 of the prescriptive design plans in FEMA P-320, and provide all approved field change orders.
- Property site inventory listing properties that were mitigated including property address, parcel information and latitude/longitude coordinates to the nearest sixth decimal place for the main egress into the safe room for each property.
- For properties located within the SFHA:
 - If applicable, a copy of the [Elevation Certificate \(FF-206-FY-22-152\)](#).
 - Recorded deed for each mitigated property, indicating compliance with the [Acknowledgement of Conditions for Properties Using FEMA Hazard Mitigation Assistance \(FF-206-FY-22-158\)](#).
 - Proof of appropriate level of flood insurance (such as a copy of the flood insurance policy).

HMA Grant Closeout Field Guides and Closeout Checklists can be found on FEMA’s ["HMA Monitoring and Closeout Guidance"](#) webpage.

H.4.1. Records Retention

All subrecipients must comply with [Part 9](#). The subrecipient should retain construction documents that are in support of FEMA-assisted work for the lifespan of the safe room.

H.5. Safe Room: Resources



Safe Room Resources

- FEMA BCA: <https://www.fema.gov/grants/guidance-tools/benefit-cost-analysis>
- FEMA EHP review job aids: <https://www.fema.gov/grants/guidance-tools/environmental-historic/preparation-resources>

- Expedited HMGP Application for Residential Safe Rooms:
<https://www.fema.gov/grants/mitigation/job-aids> (search “safe rooms”)
- *Safe Room Project Application Using Pre-Calculated Benefits*:
https://www.fema.gov/media-library-data/1424368115734-86cfbaeb456f7c1d57a05d3e8e08a4bd/FINAL_SafeRoom_JobAid_13FEB15_508complete.pdf
- Safe Room Information and Resources: <https://www.fema.gov/safe-rooms>
- FEMA P-361, *Safe Rooms for Tornadoes and Hurricanes*:
https://www.fema.gov/sites/default/files/documents/fema_safe-rooms-for-tornadoes-and-hurricanes_p-361.pdf
- FEMA P-320, *Taking Shelter from the Storm*:
https://www.fema.gov/sites/default/files/documents/fema_taking-shelter-from-the-storm_p-320.pdf
- ICC 500, *Standard for the Design and Construction of Storm Shelters*:
<https://codes.iccsafe.org/codes/standards/icc-standards>
- *Closeout Toolkit: Checklist for HMGP Subawards*:
https://www.fema.gov/sites/default/files/2020-09/fema_closeout_toolkit_checklist_hazard_mitigation_grant_program_subawards_02-19-15.pdf

I. Wildfire Mitigation

Wildfire mitigation projects are any actions undertaken to decrease the risk of damage or loss of life from wildfires. FEMA wildfire mitigation activities can be assisted by HMGP, HMGP Post Fire and BRIC. Assistance under these programs is not available for wildfire mitigation beyond the parameters described in the HMA Guide.

I.1. Wildfire Mitigation: Eligibility

This section addresses project eligibility requirements and lists the types of projects that FEMA will assist.

FEMA assistance will only be considered for clearly defined vulnerable buildings and structures. Eligible wildfire mitigation projects must clearly demonstrate hazard mitigation of the risk from wildfire to residential and non-residential buildings and structures, including public and commercial facilities. Projects must be in a Wildland Urban Interface, be adjacent to or intermingled with the built environment, and provide protection to life and the built environment from future wildfires. The Wildland Urban Interface is an area where human-made structures and infrastructure (e.g., cell towers, schools and water supply facilities) are in or adjacent to areas prone to wildfire.

I.1.1. Eligible Activities

FEMA will only assist specific wildfire mitigation activities. These activities are summarized in [Table 28](#).

Table 28: Eligible Wildfire Management Activities

Activity	HMGP	HMGP Post Fire	BRIC	FMA
Defensible space	Yes	Yes	Yes	No
Ignition-resistant building materials*	Yes	Yes	Yes	No
Ignition-resistant infrastructure**	Yes	Yes	Yes	No
▪ Ignition-resistant utility pole structures	Yes	Yes	Yes	No
▪ Repair/replace/upgrade water systems	Yes	Yes	Yes	No
Fire suppression system (sprinklers)***	Yes	Yes	Yes	No
Fuel reduction/vegetation management	Yes	Yes	Yes	No
Post-wildfire flooding prevention and sediment reduction measures:	Yes	Yes	Yes	No
▪ Reforestation, restoration and/or soil stabilization	Yes	Yes	Yes	No

Activity	HMGP	HMGP Post Fire	BRIC	FMA
▪ Ground cover vegetation re-establishment (e.g., seeding and mulching)	Yes	Yes	Yes	No
▪ Erosion prevention measures on slopes	Yes	Yes	Yes	No
▪ Flash flooding prevention measures resulting from runoff (e.g., drainage dips and debris traps)	Yes	Yes	Yes	No
Installing warning equipment and systems [†]	Yes	Yes	Yes	No

* Only eligible if the property owner has completed or agrees to complete and maintain defensible space measures around the structure.

** [Part 12.J](#) contains additional information on this project type.

*** Only external water hydration or thermal insulation systems are eligible.

† [Part 12.L](#) contains additional information on this project type.

I.1.1.1. Defensible Space

Creating defensible space involves creating a perimeter around a residential or non-residential building or structure by removing or reducing the volume of flammable vegetation, including clearing tree branches vertically and horizontally. The volume of vegetation is minimized, flammable vegetation is replaced with less flammable species, and combustibles are cleared in accordance with all applicable codes and best practices. FEMA recognizes the importance of creating defensible space for residential and non-residential buildings and structures in accordance with local fire codes; standards and design criteria provided by ICC, FEMA, the Fire Administration and the NFPA; well-established and proven techniques; and NFPA Firewise practices. FEMA recommends that ingress and egress to the building be maintained.

The required radius of defensible space around a building is related to the degree of the hazard, and the radius that is needed for an effective defensible space may therefore vary from one jurisdiction or building to another. In addition, the topography, specifically slope steepness and direction, and the arrangement, amount and flammability of the vegetation may require extending the perimeter.

Defensible space projects for residential structures, commercial buildings, public facilities and infrastructure must be implemented in conformance with local code requirements and standards for defensible space. FEMA recommends that projects use the design guidance in [FEMA P-737, Home Builder's Guide to Construction in Wildfire Zones](#) (Sep. 2008) or [FEMA P-754, Wildfire Hazard Mitigation Handbook for Public Facilities](#) (Oct. 2008), if the latter presents a stricter standard.

I.1.1.2. Ignition-Resistant Building Materials

Structural protection through ignition-resistant construction involves the use of noncombustible or ignition-resistant materials, technologies, assemblies and retrofit techniques on new and existing buildings and structures.

FEMA will consider a subapplication for an ignition-resistant building materials project only when one of the following has occurred:

- The property owner has previously created defensible space and agrees to maintain the defensible space in accordance with the HMA Guide. The subapplicant must include documentation describing the defensible space for each property in the application. FEMA will provide assistance for ignition-resistant construction projects only after the subapplicant has demonstrated that the defensible space activity is complete and has provided documentation (i.e., photographs and description of the defensible space).
- The subapplication includes both the defensible space and ignition-resistant construction projects as part of the same subapplication. The subapplicant must include a description of the defensible space for each property in the subapplication, and each property owner must agree to maintain the defensible space in accordance with the HMA Guide.

The protection of homes, structures and critical facilities using ignition-resistant construction techniques or non-combustible building materials must be implemented in conformance with the local fire-related codes and standards. FEMA recommends that projects use the [International Wildland Urban Interface Code](#), FEMA P-737 or FEMA P-754 as appropriate.

FEMA may assist above-code projects in communities if the project is cost-effective and in conformance with all applicable eligibility criteria. Eligible activities include:

- **Roof assemblies:** Installation of roof coverings; roof sheathing; roof flashing; roof skylights; roof, attic and wall vents; and roof eaves and gutters that conform to any of the following ignition-resistant construction standards: (1) construction materials are ignition-resistant in accordance with nationally recognized testing standards, (2) construction materials are non-combustible or (3) construction materials constitute an assembly that has a minimum one-hour fire-resistant rating.
- **Wall components:** Installation of wall components, such as the fascia, windows, window glazing, doors, window frames and insulation that conform to any of the following ignition-resistant construction standards: (1) construction materials are ignition-resistant in accordance with nationally recognized testing standards, (2) construction materials are non-combustible or (3) construction materials constitute an assembly that has a minimum one-hour fire-resistant rating.
- **Protection of fuel tanks:** Protection of propane tanks or other external fuel sources.
- **External water hydration and thermal insulation systems:** Purchase and installation of external, structure-specific water hydration and thermal insulation systems (foam, fire-retardant and water sprinkler systems) with a dedicated delivery system and dedicated self-contained foam or retardant in sufficient volume to protect the structure. For water sprinklers, a cistern is acceptable if a dry hydrant with a fire department connection or other water source (e.g., lake, river, swimming pool) is available. FEMA will only consider the project when assurance is provided in the operations and maintenance plan that a system (e.g., geographic information

system) will be maintained to identify property addresses with wildfire sprinkler systems and will be made available to the appropriate fire department.

I.1.1.3. Fire Suppression System (Exterior Sprinklers)

During a wildfire, firebrands and airborne debris can breach windows, and convective heat and embers can penetrate utility openings, gaps around doors and other openings. Exterior water hydration systems can help extinguish flames before the building has been substantially damaged, protect nearby buildings and prevent the fire from igniting nearby combustible vegetation.

I.1.1.4. Fuel Reduction/Vegetation Management

Hazardous fuels reduction involves the removal or modification of vegetative fuels proximate to the at-risk buildings or structures that, if ignited, pose a significant threat to human life and property, especially critical facilities. Hazardous fuels reduction includes thinning vegetation, removing ladder fuels, reducing flammable vegetative materials (such as invasive plants) and replacing flammable vegetation with fire-resistant vegetation for the protection of life and property. Hazardous fuels reduction may also come in the form of a fuel break, which is natural or manmade change in fuel characteristics that affects fire behavior so that fires burning into them can be more readily controlled.

Hazardous fuels reduction projects are implemented at the community level and extend beyond defensible space perimeters.

Hazardous fuels reduction projects will be designed to moderate fire behavior and reduce the risk of damage to life and property in the target area for hazard mitigation. The natural variation in vegetation, topography and atmospheric conditions does not lend itself to a national design standard for hazardous fuels reduction activities. Hazardous fuels reduction projects will be designed and implemented in accordance with state and local codes and standards and best practices. The project design should include consideration of the landscape and intended function of the project, and the location and orientation of the project site should be designed with consideration of the likely direction and severity of a wildfire.

Hazardous fuels reduction may be accomplished using community-owned, rental or contract resources and equipment for mechanical treatments, such as disking, mowing, limbing, sawing, chipping, grinding, mulching and chopping. Chopping equipment may include chippers and saws. The equipment may not pose a risk of fire ignition (e.g., by using a spark arrestor).

Eligible activities include community-level vegetation management, vegetation removal, vegetation clearing and/or thinning, slash removal and vertical and horizontal clearance of tree branches to reduce the threat to human life and structures from future wildfires. Hazardous fuels reduction may include the following techniques:

- Chemical treatments, including herbicide applications with appropriate safeguards to ensure protection of human life, the environment and watersheds.

- Grazing or biomass conversion.
- Mechanical treatments, such as disking, mulching, chipping, grinding, mowing, limbing, chopping and removal of such material; material left on-site must meet appropriate depth practices in accordance with applicable codes and best practices.
- Biomass removal, including clearing straw, removing dead or dry vegetation, thinning, removing brush and pine straw, or removing blown-down timber from wind throw, ice or a combination.
- Biomass burning, including gathering vegetation into a pile for burning.
- Felling of standing burned trees and other hazardous trees perpendicular to a slope to help prevent erosion.
- Other industry-accepted techniques with FEMA’s approval.

I.1.1.5. Post-Wildfire Flooding Prevention and Sediment Reduction Measures

Wildfires can leave slopes bare of vegetation, making them subject to erosion. Wildfires also can change the chemical composition of the surface soils, making them hydrophobic, which means they repel water rather than absorb it. Consequently, periods of intense and/or extended rainfall after a wildfire can result in runoff that could result in flash floods, debris slides and mudslides, which could pose a threat to life and property at the bottom of the slope.

Post-wildfire flooding preventive measures can be implemented to protect property at the base of slopes with hydrophobic soils because of wildfire. These measures may direct water away from the property and slow the flow of water down the slope. Post wildfire sediment reduction prevention measures are meant to mitigate the risk of sediment and mud flows after a wildfire has burned a watershed. Wildfires create the potential for landslides, mudflows and sediment flows, which increase the debris and sediments during flooding events. Prevention measures to mitigate the amount of sediment in post-wildfire runoff include the use of rock or log dams and sediment debris traps.

Flash flooding preventive measures are meant to mitigate risk of flooding after a wildfire event has burned the watershed upstream of a project area. Wildfires increase the risk of flooding by reducing the vegetation and increasing the ability of the soils in the watershed to retain water. These preventative measures include:

- Diversion channels (artificial channels built to reduce excess water flow) or deflection walls (generally reinforced concrete structures that can protect bridge abutments) can be used to slow and redirect the flow and movement of water across a slope rather than directly downward to a stream or wetland.
- Drainage dips (intentionally reverse grade built into a roadway) can divert water flow from the surface and direct it instead toward a discharge area.

- Emergency spillways (drainage channels constructed for discharge surplus water) can keep roads and bridges from washing out during floods.
- Water bars (berms of soil, straw, rock or bedded logs placed perpendicular to the slope) can protect against erosion, run off, and high water by preventing water from overcoming the slope.
- Culvert modifications and or removal to channel water off the burn region.

I.1.2. Ineligible Activities

The following project activities and their associated costs are not eligible for FEMA assistance:

- Projects that do not protect homes, neighborhoods, structures or infrastructure.
- Activities associated with facilities or land owned by another federal entity where the specific authority relating to the activities lies with another federal entity.
- Projects to address ecological or agricultural issues related to land and forest management (e.g., insects, diseases, infestations, damage from extreme weather events affecting the forest-wide health).
- Irrigation of vegetation to avoid disease or drought-related infestation.
- Projects to protect the environment or watersheds.
- Projects for prescribed burning or clear-cutting.
- Projects for maintenance activities, deferred or future, without an increase in the level of protection.
- Projects for the purchase of fire-related equipment (e.g., vehicles, fire trucks) or communications equipment, except for warning equipment and systems.
- Creation and maintenance of access roads or staging areas for wildfire response equipment.
- Creation and maintenance of fire breaks.
- Purchase of equipment to accomplish eligible work (e.g., chainsaws, chippers).
- Projects for vegetation irrigation systems installed on the ground and designed to moisten the surface.
- Development or enhancement of fire suppression capability through the purchase of equipment or resources (e.g., water supply or sources, dry hydrants, cisterns not related to water hydration systems, dip ponds).

- Activities intended solely to remedy a code violation without an increase in the level of protection.

I.1.3. Duplication of Programs

Before submitting an assistance application, the applicant must ensure that duplication of programs between federal agencies will not occur. FEMA will not provide assistance for activities for which it determines the specific authority lies with another federal agency or program. Wildfire mitigation is addressed by the federal government through a comprehensive legislative framework. FEMA recognizes that other federal departments and agencies, such as the Forest Service, Natural Resource Conservation Service, Fish and Wildlife Service, National Park Service, Bureau of Land Management and the Bureau of Indian Affairs, have primary wildland fire management responsibilities. These departments and agencies also have the primary responsibility for addressing ongoing forest management conditions, such as those caused by forest age, disease and pest infestation spreading to and from the federal lands onto adjacent non-federal lands.

While these and other federal agencies have the specific authority to protect the watersheds, forests, soils and timber resources and address forest management conditions, they also have authority to address wildfire hazard reduction, including hazardous fuels reduction, with primary attention on areas that are on or near federal lands. They may also assist state and local jurisdictions in efforts to protect the built environment in fire-prone areas of forests, ranges and grasslands. FEMA may assist projects that are complementary and adjacent to but not duplicative of projects assisted by other federal agencies.

If projects proposed for FEMA HMA hazardous fuels reduction are in a Wildland Urban Interface area, the applicant can check for potential duplication by contacting a local office of the Department of Agriculture or the Department of the Interior for information. HMA applicants are expected to be aware of any current or proposed hazardous fuels reduction projects under the Department of the Interior or the Department of Agriculture's Forest Service and should provide an assurance to FEMA that there is no duplication of programs. If a project is already under consideration for assistance from another agency, the community should await the outcome of that decision before applying for HMA. If an agreement is already in place with another agency to perform hazardous fuels reduction but there is a delay in funding, HMA cannot be made available to substitute or replace other assistance. If Congress has specifically authorized another federal agency to perform a project, duplication of programs and HMA cannot be used regardless of whether there is a current appropriation.

FEMA does not have authority to assist projects on federal land owned by another federal entity or projects with the purpose of addressing forest health conditions or ecological or agricultural issues related to land and forest management (e.g., insects, diseases, damage from extreme weather events affecting the forest-wide health, pest infestations). FEMA hazard mitigation authority targets at-risk buildings and structures without regard to the benefits to federal land and activities in areas outside the primary focus of other federal agency wildfire risk reduction programs. FEMA HMA for wildfires is focused on cost-effective, functional hazard mitigation actions taken to reduce the risk to

specific properties or buildings and structures from future wildfires or flood after fire. FEMA’s goal of reducing the risk from wildfire hazards to human life and property, including loss of function to critical facilities, is intended to complement, and not duplicate, the programs of numerous other federal agencies, such as the Forest Service or Bureau of Land Management, that fund wildfire risk reduction on non-federal lands.

I.1.4. Cost Effectiveness

Applicants and subapplicants must demonstrate that hazard mitigation projects are cost-effective. Projects must be consistent with [Part 5](#) Cost-Effectiveness.

The wildfire module of the FEMA BCA Toolkit considers Landscape Fire and Resource Management Planning Tools (LANDFIRE) data,⁴⁴⁴ timber costs, fire suppression costs and project effectiveness.

Project types that may be analyzed using the wildfire module include:

- Defensible space.
- Hazardous fuels reduction activities.
- Ignition-resistant construction.

In some cases, the Historic/Professional Expected Damage methodology may be appropriate if historical damage data is available.

Wildfire mitigation projects may qualify for ecosystem services benefits if they protect an existing natural area. Applying ecosystem services benefits to wildfire mitigation projects should be evaluated on a case-by-case basis, as the design of these projects can vary widely. In general, defensible space and ignition-resistant construction projects are not likely to qualify for ecosystem services benefits. A wildfire mitigation project may not include ecosystem services benefits if:

- It does not protect at least one contiguous acre of natural space, such as a forest or grassland.
- It involves the application of chemicals or other non-natural substances.

I.1.4.1. Pre-Calculated Benefits for Post Fire Flood Risk Reduction

FEMA developed pre-calculated benefits for certain hazard mitigation activities that reduce flood risk in wildfire impacted areas. Specifically, pre-calculated benefits have been determined for each of the following post-wildfire flood mitigation activities:

- Soil stabilization:

⁴⁴⁴ LANDFIRE data provides information for landscape assessment, analysis and management. The data is from a shared program between the wildland fire management programs of the Forest Service and Department of the Interior.

- Reseeding ground cover with native species
 - Mulching with straw or chipped wood
 - Placing logs and other erosion barriers to catch sediment on hill slopes
 - Planting grass to prevent the spread of noxious weeds
- Flood diversion (including flash flooding prevention and sediment reduction measures)
 - Reforestation

If the cost of a given project does not exceed the pre-calculated benefits value per acre, it will be deemed cost-effective using the pre-calculated benefits methodology. Pre-calculated benefits cannot be combined with benefits from a traditional BCR calculated using the BCA Toolkit.

To use the post-wildfire pre-calculated benefits, the applicant would multiply the number of acres being mitigated by the appropriate pre-calculated benefits value per acre based on the hazard mitigation activity being implemented. For example, if the project is to provide soil stabilization by reseeded ground cover with native species of 1,000 acres, the total project benefit amount would equal that specific pre-calculated benefits value multiplied by the number of acres—in this case, 1,000.

These pre-calculated benefits are based on the risk reduction and ecosystem service benefits provided by the forest and other vegetation with primary emphasis on the reduced flood risk these systems provide. Post wildfire mitigation projects that demonstrate they are cost-effective (a BCR of 1.0 or greater) using the pre-calculated benefits do not need to submit a separate BCA.

For up-to-date information on the dollar value of the pre-calculated benefits, refer to FEMA's "[How to Complete a Streamlined BCA](#)" webpage.

I.1.5. Feasibility and Effectiveness

Projects must be consistent with [Part 5](#). Hazard mitigation projects assisted by HMA programs must be both feasible and effective at mitigating the risks of the hazard(s) for which the project was designed. A project's feasibility is demonstrated through conformance with accepted engineering practices, established codes, standards, modeling techniques or best practices.

Wildfire mitigation projects must be technically feasible, effective at reducing risk, and designed and implemented in conformance with all federal, state and local requirements, including state and local building codes and land-use restrictions. FEMA urges the community or any entity implementing wildfire mitigation to use the materials and technologies that are in accordance with the ICC, FEMA, the Fire Administration and the NFPA [Firewise](#) recommendations, whenever applicable.

I.1.6. Environmental and Historic Preservation

All subapplications submitted to FEMA must meet the EHP criteria in [Part 4](#). All subapplications must provide the information described in [Part 6](#) so that FEMA may perform the EHP review.

The [Wildfire Technical Review](#) FEMA EHP job aid lists the documentation needed for projects for FEMA to complete the EHP compliance review process.

I.2. Wildfire Mitigation: Application and Submission Information

All subapplications submitted to FEMA must meet the eligibility criteria in [Part 4](#). All subapplications must have a scoping narrative in accordance with [Part 6](#). Project-specific criteria are highlighted below.

Wildfire mitigation projects can be assisted by HMGP, HMGP Post Fire or BRIC. FEMA may request additional information after the subapplication has been submitted to ensure all necessary information is received. However, all information required by the regulations and the HMA Guide must be received before an assistance decision and award or final approval can be made. The required information includes:

- Documentation that demonstrates that no duplication of programs will occur, that other federal programs have been investigated, and that the applicant has coordinated with other appropriate federal agencies.
- A statement acknowledging that a final operations and maintenance plan will be submitted to FEMA before project closeout.
- A map of the wildfire severity within the project area(s). Wildfire severity, also referred to as wildfire intensity, is influenced by fuels, atmospheric conditions and topography. Identifying the wildfire severity within a project area will demonstrate the potential for dangerous wildfires to occur.
- A map of the wildfire frequency within the project area(s). Wildfire frequency, also referred to as wildfire burn recurrence or wildfire return interval, is determined using historical fire report data. Identifying the wildfire frequency within a project area will demonstrate how often a wildfire is likely to occur.
- A FIRM showing project location and demonstrating the flood zone in which the project is located.

I.2.1. Property Location

Provide map(s) showing the project area and the structures' relationship to the Wildland Urban Interface or forested, range or grassland area. The maps should include the following elements:

- **Contour data** on the map or an additional map with the project's boundary and contours.

- **Latitude and longitude** to the nearest sixth decimal place for all corners of the project area so the treatment area’s outline can be determined.
- **Ignition-resistant construction:** All structures within the project area(s) should be highlighted on the map.
- **Hazardous fuels reduction and defensible space:** Specific treatment polygons should be identified on the map. Maps should also identify the locations of the structures proposed to be protected by the project and the distance between the project area and the structures.
- **Property address(es) of each structure** involved in the hazard mitigation project. This includes the street name and number; city, county or parish; state; and ZIP code. A post office box number is not an acceptable address. If the address provided does not match with the structure(s) to be mitigated, provide photos or a site map with the structure(s) footprint(s) identified.
- **Structure-specific details:** If the project is protecting multiple structures, this information must be provided, with supporting documentation, for each structure. Provide the following information about the existing structure(s):
 - For hazardous fuels reduction and defensible space projects, a list of the type of structures to be protected (e.g., residential, police station, hospital).
 - Property-level rating of wildfire risk for each home or community and the scale used to measure the rating levels (if applicable).
 - For ignition-resistant construction projects, in addition to the structure type, the following information about each structure:
 - Year the structure was built.
 - Description of the structure type (e.g., elementary school, government building).
 - Description of the construction type (e.g., wood framed, masonry/brick, concrete or steel).
 - Structure information, including the size of the structure and number of stories.
 - The average number of occupants residing in each structure.
 - Description of the foundation.
 - Photographs of the structure to be protected by the wildfire mitigation project. Provide a descriptive caption explaining what each photo shows, the direction it was taken and the side of the structure shown (e.g., “east side of structure, looking west”).

I.2.2. Activities and Schedule

All subapplications must include an activities description referencing industry standards or project plans and specifications and a schedule for completing the activities.

The project narrative must identify the proposed hazard mitigation action and structures to be mitigated, including a description of the proposed activities and a clear explanation of how the project will mitigate risk. The project narrative must include key milestones and correspond with the design information, project schedule and budget.

The following items should be included in the project narrative:

- The wildfire hazard being mitigated, including previous wildfires, damage history and the future potential wildfire risk of the project area(s).
- A rationale for effectiveness. Eligible wildfire mitigation projects must demonstrate mitigation of the risk from wildfire to residential and non-residential buildings and structures, including public and commercial facilities. Projects must be in a Wildland Urban Interface, be adjacent to or intermingled with the built environment, and provide protection to life and the built environment from future wildfires.
- Quantification of the project area where the wildfire mitigation will occur (e.g., 100 acres of fuels reduction) or quantify the area for each type of treatment as it relates to the projected structures (e.g., a 30-foot buffer of defensible space around each identified structure).
- For hazardous fuels reduction projects, a description of the treatment plan or landscaping plan for all vegetation that would be removed or affected by the project for each project site. This should include a description of the types of vegetation that would be removed, the method of removal (e.g., herbicide, hand tools, bulldozer), and the overall goal of the vegetation removal (e.g., decrease vegetation density, remove ladder fuels, create a level and vegetation-free site).
- If vegetation will be planted, details about the types of vegetation and the method of planting.
- A description of the distance from the treatment site to protected structures. A hazardous fuels reduction project could protect numerous structures that are within the treatment area, and the risk reduction for the target community or buildings must be demonstrated in the scoping narrative and supporting documentation.
- For defensible space projects, a description of the proposed defensible space activities for each property. Describe the treatment plan or landscaping plan for all vegetation that would be removed. In addition, describe any other facilities to be addressed, such as propane tanks, wood decks or fences, and the method of mitigation. Provide the treatment radius around each structure receiving hazard mitigation.
- For fire-resistant materials projects, proposed conceptual designs, project plans and specifications. Fire-resistant materials projects are required to include a defensible space

component as part of the application, or each property owner must have previously created defensible space and agrees to maintain it.

- A description of how the project conforms to current codes and best practices. FEMA urges the community or any entity implementing wildfire mitigation to use the materials and technologies that are in accordance with International Wildland Urban Interface Code, FEMA, Fire Administration and the NFPA Firewise recommendations, whenever applicable.
- A description of the equipment that will be used for the project. Include the likely maximum use of this equipment on at least an annual basis. If available, include details about known or planned restrictions to the construction equipment such as seasonal or daily restrictions.
- A description of all potential construction debris, including vegetation, that could be generated by the project. Provide details on the method of disposal of vegetation (such as grazing, chipping or mulching, or hauling to an off-site location) and construction debris, including potential locations and the legal status of disposal sites (whether the site is a licensed landfill).

I.2.3. Budget

Subapplications must include detailed line-item costs in the project budgets for each hazard mitigation item provided in the scope of work. Well-documented project budgets contain quantities, unit costs and a source for each unit cost. Lump-sum estimates are not acceptable. The assistance of a licensed engineer, architect or contractor (wildfire expert) may be required to help develop the project cost.

Subapplicants may apply for subrecipient management costs to cover administrative costs. Management costs must be included in the subapplication budget as a separate line item. More information about the requirements for management costs requests can be found in [Part 13](#).

Allowable costs are costs that are necessary and reasonable for the proper and efficient performance and administration of the federal award. They may include but are not limited to:

- Engineering services for design, structural feasibility analysis, geotechnical assessments and budget preparation.
- Project administration and construction management.
- Soil sampling.
- Permit costs.
- Surveying and inspection.
- Labor costs.
- Management costs (refer to [Part 13](#)).

- All construction activities.
- List of equipment, including cost for each item.
- Debris removal and disposal costs (e.g., hauling, chipping).
- Erosion control.
- List of construction materials, including unit cost for each item.

A cost per structure must be provided for defensible space and ignition-resistant construction projects, and a cost per acre must be provided for hazardous fuels reduction projects.

Maintenance costs should reflect the costs associated with hazard mitigation being maintained for the entire project useful life. Maintenance costs will vary, depending on project type, geographic location, atmospheric conditions and vegetation type. For example:

- **Defensible space:** Grassland vegetation was mowed and forested vegetation was removed within a 100-foot radius of the structure. At a minimum, to maintain the project effectiveness, the grassland regrowth must be mowed on a consistent basis (dependent on geographic location and precipitation) throughout the one-year project useful life. The forested regrowth must be hand trimmed at least every three years throughout the 20-year project useful life.
- **Hazardous fuels reduction:** 150 acres of dense forested vegetation was thinned out by pruning the forested canopy. To maintain effectiveness, the forested regrowth must be hand trimmed at least every three years throughout the 20-year project useful life.
- **Ignition-resistant construction:** Brush was removed within a 100-foot radius of the structure to create the required defensible space, and a fire-resistant roof was put on the structure. At a minimum, to maintain the project effectiveness, the brush regrowth must be trimmed on a consistent basis (dependent on drought conditions) throughout the four-year project useful life. Minimal roof maintenance should be required within the 10-year project useful life.
- **Flash flooding prevention measures:** Contour log felling was completed for a width of about 500 feet perpendicular to a slope denuded by wildfire. The logs were staked in place to prevent them from rolling downhill. Soil was tamped between the logs and the ground surface to prevent water from eroding under the logs. A trench approximately 1-foot deep was dug on the uphill side of each log to catch debris. To maintain project effectiveness, the debris trenches must be cleared annually until vegetation on the slope is re-established (about three years).

I.3. Wildfire Mitigation: Subaward Implementation

The basic steps in implementing an approved HMA wildfire project are:

1. Pre-construction (carry out design process; site assessments, seek technical consultant; prepare cost estimate; obtain construction permits, including requirement environmental permits; hire construction manager/contractor).
2. Coordinate with appropriate state, local tribal and territorial agencies and private nonprofits as appropriate.
3. Clear/prepare site for construction activities.
4. Construct/implement/install mitigation measures included in the project.
5. Achieve substantial completion.
6. Complete inspections and obtain certificate of occupancy (if required).
7. Complete monitoring and maintenance.

Post-award monitoring helps ensure subapplicants/subrecipients are achieving the objectives of the federal award consistent with the performance goals and milestones described in the subaward. To assist the recipient in monitoring wildfire projects, the following milestone information or events should be included in Quarterly Progress Reports:

- If the subrecipient is acquiring contract support, the subrecipient should report when the request for proposal is completed, when the contract is out for bid, when the bid period closes, when proposals are reviewed, when the contractor is selected and the date of the kick-off meeting.
- Describe the current status including a summary of:
 - Recent progress and planned work.
 - Risks identified or changes from the milestones/deliverables submitted with the scope of work (e.g., financial concerns, coordination issues with state or local governments and utilities, project management or contracting issues, legal disputes, and significant changes impacting construction activities or timelines such as delays due to weather, materials, procurement or labor issues).
- When construction has started, is substantially complete or completed.
- Any other milestones that have been identified in the subapplication or agreed to or are required by the recipient.

I.3.1. Budget and Scope of Work Change

Recipients are required to report deviations from budget, project scope or objectives in accordance with [Part 8](#). Recipients must request prior written approvals from FEMA for certain budget and program plan revisions.⁴⁴⁵

⁴⁴⁵ [2 CFR § 200.308](#)

If the final design is not complete prior to award, once the project is awarded, the design must be finalized by a licensed design professional. Any changes to the scope of work or budget because of completing the final design or to address permitting requirements must be consistent with [Part 8](#). Construction design activities are defined as construction activities for budgeting and scope of work purposes.

I.4. Wildfire Mitigation: Closeout

Recipients and subrecipients must closeout projects in a timely manner consistent with [Part 9](#).

In addition to the typical HMA program closeout procedures, closeout of wildfire projects generally includes:

- Property site inventory listing of all properties mitigated.
- Final inspection report with the name of the inspector and date of inspection. The report must include the following:
 - A narrative of all the components of the project that were completed and verification that the scope of work was completed and is consistent with activities identified in the scope of work.
 - Photographs of the project area(s) with clear labels.
 - A map of the project area(s) with accurate latitude/longitude to the nearest sixth decimal place.
- Clearly labeled photographs of the project site before and after hazard mitigation. Photos should confirm the scope of work is completed.

In addition, the closeout of wildfire mitigation projects includes submitting an operations and maintenance plan to FEMA for review prior to project closeout. In the operations and maintenance plan, the recipient must confirm the plan is consistent with the HMA Guide, meets or exceeds local codes, and is in conformance with appropriate fire-related codes.

At a minimum, the operations and maintenance plan must include all the following information:

- Information demonstrating the completed wildfire project will be maintained to achieve the proposed hazard mitigation.
- A description of the post-closeout maintenance activities that will be undertaken to maintain the project area(s) or site(s).
- The period of time the community is committing to maintain the area and/or project site, which must be consistent with the project useful life in the BCA.

- The department and job position that will be responsible for maintaining the project after the construction has ended.
- Estimated costs for annual maintenance of the project.
- The schedule for implementation of the maintenance activities.

HMA Grant Closeout Field Guides and Closeout Checklists can be found on FEMA’s ["HMA Monitoring and Closeout Guidance"](#) webpage.

I.5. Wildfire Mitigation: Resources



Wildfire Mitigation Resources

- *Wildfire Application Instructions:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-wildfire-mitigation-application-instructions.pdf
 - *Wildfire Application Example Document:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-wildfire-mitigation-application-example.pdf
 - *Wildfire Technical Review job aid:*
https://www.fema.gov/sites/default/files/documents/fema_technical-job-aid-wildfire.pdf
 - *Wildfire, Information Required for Environmental Review:*
https://www.fema.gov/sites/default/files/documents/fema_ehp-wildfire-job-aid.pdf
 - FEMA BCA webpage: <https://www.fema.gov/grants/guidance-tools/benefit-cost-analysis>
 - FEMA EHP review job aids: <https://www.fema.gov/grants/guidance-tools/environmental-historic/preparation-resources>
 - National Fire Protection Association Firewise: <https://www.nfpa.org/Public-Education/Fire-causes-and-risks/Wildfire/Firewise-USA>
 - International Code Council: <https://www.iccsafe.org/products-and-services/i-codes/2018-i-codes/irc/>
 - 2021 International Wildland-Urban Interface Code:
<https://codes.iccsafe.org/content/IWUIC2021P1>
 - Fire Administration: <https://www.usfa.fema.gov/>
- National Fire Protection Association: <https://www.nfpa.org/Codes-and-Standards/All-Codes-and-Standards>
- FEMA HMA job aids: <https://www.fema.gov/grants/mitigation/job-aids>
 - FEMA HMGP Post Fire: <https://www.fema.gov/grants/mitigation/post-fire>

- FEMA P-737, *Homebuilders Guide to Construction in Wildfire Zones*: https://www.fema.gov/sites/default/files/documents/fema_p-737-vents-technical-fact-sheet-8.pdf
- FEMA P-754, *Wildfire Hazard Mitigation Handbook for Public Facilities*: https://www.fema.gov/sites/default/files/2020-08/fema_p_754.pdf
- LANDFIRE Program: <https://www.landfire.gov/>
- National Fire Protection Association 703, *Standard for Fire-Retardant Treated Wood and Fire-Retardant Coatings for Building Materials*: <https://www.nfpa.org/codes-and-standards/all-codes-and-standards/list-of-codes-and-standards/detail?code=703>
- National Fire Protection Association 914, *Code for Fire Protection of Historic Structures*: <https://www.nfpa.org/codes-and-standards/all-codes-and-standards/list-of-codes-and-standards/detail?code=914>
- National Fire Protection Association 1141, *Standard for Fire Protection Infrastructure and Land Development in Suburban Rural Areas*: <https://www.nfpa.org/codes-and-standards/all-codes-and-standards/list-of-codes-and-standards/detail?code=1141>
- National Fire Protection Association 1144, *Standard for Reducing Structure Ignition Hazards from Wildland Fire*: <https://www.nfpa.org/codes-and-standards/all-codes-and-standards/list-of-codes-and-standards/detail?code=1144>
- Marshall Fire Mitigation Assessment Team Reports: <https://www.fema.gov/emergency-managers/risk-management/building-science/publications?name=Marshall+Fire>

J. Retrofit

Retrofitting is any change made to an existing structure to reduce or eliminate the possibility of damage to that structure from flooding, tsunami, erosion, extreme temperatures, high winds, earthquakes, wildfires, snow or other hazards. Retrofits may be structural or non-structural in nature.

Structural retrofitting is used to address structural deficiencies in existing buildings and structures. Since building codes generally are not retroactive, existing buildings and structures only comply with codes in effect at the time of their design and construction. Therefore, existing buildings and structures may not meet the current standards and codes for new construction. In some circumstances, when a building undergoes alteration, repair, addition or change of occupancy, current building codes can be triggered for structural updates to meet the code requirements and desired building performance. Outside of these circumstances, local authorities may require mandatory retrofitting for certain vulnerabilities in existing buildings and structures. The [International Existing Building Code](#) and reference standards are commonly used for structural retrofitting to achieve a certain level of risk reduction.

Non-structural retrofits mitigate against current and future risks and other natural hazards but are not intended to address structural components of buildings. Non-structural retrofits may be done in conjunction with or independently from structural retrofits.

FEMA encourages subapplicants to consider projects that prioritize co-benefits across multiple hazard types. For example, non-structural retrofits can include wildfire and wind hazard mitigation elements that reduce the use of combustible materials on externally facing surfaces of the building and improve wall component openings through upgrading windows, window frames and doors. Additionally, the installation of a heating and cooling system in a multi-family residential building can address extreme temperatures and address natural hazard-related air quality concerns simultaneously.

J.1. Retrofit: Eligibility

This section addresses project eligibility requirements and lists the types of projects that FEMA will assist.

J.1.1. Eligibility Criteria

All retrofit subapplications submitted to FEMA must meet the eligibility criteria in [Part 4](#).

FEMA will consider a retrofit activity to be an eligible project under applicable HMA programs if:

- The retrofit is designed and constructed to meet or exceed the requirements in the latest published editions of the International Codes and Standards or other jurisdiction-based building codes, whichever is stricter (if applicable).
- **For Seismic Retrofits:** As applicable, seismic retrofit projects for existing buildings must be designed to meet or exceed the requirements in the latest published edition of [ASCE 41](#), *Seismic Evaluation and Retrofit of Existing Buildings*, as of the opening of the relevant HMA application period. Other codes, standards, and minimum requirements that may need to be met include IEBC, IBC, IRC, ASCE 7.
- **For Wind Retrofits:** Wind retrofit projects for one- and two-family residential buildings must be designed to meet or exceed the design criteria found in [FEMA P-804](#), *Wind Retrofit Guide for Residential Buildings*. Hurricane-prone regions, as defined by the most current publication of [ASCE/SEI 7](#), *Minimum Design Loads for Buildings and Other Structures*, may have additional requirements for protecting buildings from wind and wind-borne debris. More information can be found in FEMA P-804 and [FEMA Hurricane Michael Recovery Advisory 1](#), *Successfully Retrofitting Buildings for Wind Resistance* (June 2019).
- **For Extreme Temperature Retrofits:** Retrofit projects addressing extreme temperature are not eligible for funding as a stand-alone project type and must be combined with an eligible (construction) project subapplication.

- For mechanical extreme temperature retrofits, such as a heating or cooling system, the system must be permanent (fixed) and not portable.
- Subapplications that include a heating or cooling system component and address mortality/morbidity must show a clear connection between the proposed hazard mitigation activity and the reduced mortality/morbidity to the benefitting population identified in the subapplication.
- **For Air Quality Retrofits:** Retrofit projects addressing air quality are not eligible for funding as stand-alone projects must be combined with an eligible (construction) project subapplication.

J.1.2. Eligible Activities

[Table 29](#) highlights eligible retrofit activities.

Table 29: Eligible Retrofit Activities

Eligible Activities	HMGP	HMGP Post Fire	BRIC	FMA
Seismic Structural Retrofit	Yes	Yes	Yes	No
Seismic Non-Structural Retrofit	Yes	Yes	Yes	No
Wind Retrofit	Yes	Yes	Yes	No
Wildfire Retrofit	Yes	Yes	Yes	No
Snow Retrofit	Yes	Yes	Yes	No
Extreme Temperature Retrofit	Yes*	Yes*	Yes*	No
Air Quality Retrofit	Yes*	Yes*	Yes*	No
Other Retrofit Activities	Yes	Yes	Yes	Yes**

* When combined with another eligible activity.

** Activities eligible for FMA must reduce or eliminate the risk of repetitive flood damage to buildings insured by the National Flood Insurance Program.

J.1.2.1. Seismic Structural Retrofit

The goal of a seismic structural retrofitting project is to reduce the risk of death, serious injury and property damage during an earthquake event. This is typically accomplished by modifying and strengthening a building’s seismic load-resisting system to reduce or eliminate known seismic deficiencies. Some vulnerable building types in high seismic regions are likely candidates for seismic structural retrofitting projects, including unreinforced masonry, non-ductile concrete, weak/soft first stories and tilt-up buildings. Local authorities may issue a seismic ordinance requiring the evaluation and retrofit of certain vulnerable building types. An evaluation completed in accordance with the latest published edition of [ASCE/SEI 41](#), *Seismic Rehabilitation of Existing Buildings*, is often

necessary to identify the deficiencies that may require seismic structural retrofitting. Sometimes new structural elements are added. In many cases, existing elements can be enhanced to meet an improved level of performance. For some critical or essential buildings in high seismic regions such as school buildings or hospitals, new construction in compliance with the most current building codes often achieve a desired better performance.

The following are common examples of seismic structural retrofitting project elements:

- Adding new lateral load-resisting elements including concrete or steel shear walls or structural steel-braced or moment frames.
- Adding reinforcement, shotcrete overlay, confinement or post tensioning to unreinforced masonry walls.
- Adding new vertical load resisting elements to prevent floor or roof collapse.
- Providing continuous load paths for lateral load-resisting systems.
- Eliminating weak or soft stories by infilling openings or adding moment frames.
- Increasing concrete member ductility with column jackets or steel or fiber wraps.
- Modifying existing steel-braced frames with buckling restrained/resistant braces or other.
- Installing base isolation systems or adding damping elements.
- Adding pneumatically applied concrete, weld plates or plywood panels to existing lateral load-resisting systems.
- Strengthening roof and floor diaphragms and their connections to supporting walls and lateral load-resisting systems.
- Eliminating plan irregularities by modifying floor areas or adding seismic joints.
- Enhancing detailing of structural elements to improve ductility such as pre-1994 special steel moment frame joint detailing.

More information on seismic vulnerabilities of different building types and specific retrofitting techniques, refer to [FEMA P-547](#), *Techniques for the Seismic Rehabilitation of Existing Buildings* (Feb. 2007). Additional information on specific structural systems can be found for non-ductile concrete buildings in [FEMA P-2018](#), *Seismic Evaluation of Older Concrete Buildings*, for wood frame buildings in [FEMA P-1100](#), *Vulnerability-Based Seismic Assessment and Retrofit of One- and Two-Family Dwellings*, and for steel moment frame buildings in [FEMA 351](#), *Recommended Seismic Evaluation and Upgrade Criteria for Welded Steel Moment Frame Buildings*.

J.1.2.2. Seismic Non-Structural Retrofit

The goal of seismic non-structural retrofitting is to reduce the risk of death, serious injury and damage during a future earthquake event. This is typically accomplished by securing, bracing or isolating architectural elements; mechanical, electrical and plumbing equipment; and building contents. Building codes have specific requirements for anchoring major architectural and mechanical, electrical, and plumbing components. Before undertaking a seismic non-structural retrofitting project, subapplicants should first ensure the structural load bearing and hazard load-resisting systems to support their non-structural components or systems are adequate, especially some seismically vulnerable structures such as unreinforced masonry or nonductile concrete frame buildings that may need to be retrofitted. Non-structural retrofitting typically has higher BCR than structural retrofitting; however, it makes little sense to strap down computer monitors if the building collapses in an earthquake.

Examples of seismic non-structural retrofitting include providing secure attachments for the following:

- Exterior facade panels or brick masonry.
- Architectural ornaments, roof parapets and chimneys.
- Heavy interior partition walls.
- Utility and mechanical equipment/systems such as heating, ventilation, air conditioning, water/sewer, gas, electric, ductwork, pipes, motors, pumps and fans.
- Communication equipment and distribution.
- Drop ceilings and pendant lighting.
- Lens covers on fluorescent light fixtures.
- Mirrors, paintings, clocks and similar heavy/fragile wall-mounted objects.
- Computers and monitors.
- Filing cabinets, bookcases and lockers.

Other examples of seismic non-structural retrofits include:

- Removing heavy ornaments or other features determined not to be needed.
- Replacing or jacketing hollow clay-tile walls, especially in stairways and exit corridors.
- Arranging building contents to reduce risk of falling hazards and to prevent blockage of evacuation routes and emergency exits.

- Storing fragile items and equipment on or near floors.
- Securing all dangerous chemicals to prevent container breakage.

J.1.2.3. Wind Retrofit

Wind mitigation retrofit projects are defined as modifications to the elements of a building to reduce or eliminate the risk of future wind damage and to protect inhabitants. They reduce the vulnerability of and damage to buildings and their contents from wind and wind-driven rain intrusion during a long duration, high-wind event, such as a hurricane.

Retrofitting one element of a building without accounting for wind vulnerabilities in the non-retrofitted elements can lead to ineffective hazard mitigation. Simply protecting one element does not necessarily achieve the goal of protecting the building and its contents during a high-wind event, nor does it ensure the building will be functional. Even when a retrofitted element performs as intended, the building as a whole may not achieve the target performance level intended by the retrofit. To achieve the intended performance level, all building elements that may be vulnerable to wind damage should be identified, and a comprehensive plan for executing the needed retrofits should be developed.

Wind retrofits involve strengthening connections to ensure a continuous load path from the roof to the foundation; protecting openings with impact-resistant glazing, shutters or doors rated for higher winds; and proper anchoring of components, cladding and rooftop equipment. As a best practice, all installed shutters, windows and door assemblies should have labels showing their wind pressure and/or windborne debris resistance. Such labels ensure the assemblies have been tested and are suitable for their intended purpose. Wind retrofit projects for existing one- and two-family residential buildings must be designed in conformance with the design criteria found in the most recent edition of [FEMA P-804](#), *Wind Retrofit Guide for Residential Buildings*.⁴⁴⁶ Although FEMA P-804 is primarily intended to be applied in hurricane-prone regions as defined by the most current publication of ASCE/SEI 7, it may also be applied to non-coastal areas subject to high winds.

Examples of wind retrofit projects include:

- Replacing roof and wall coverings with those capable of resisting high winds.
- Installing and improving roof covering underlayments such as securing roof deck attachments and providing a secondary water barrier.
- Protecting openings (windows, doors, garage doors, soffits and vents) to resist high winds, windborne debris and wind-driven rain.

⁴⁴⁶ FEMA P-804 is not applicable to manufactured housing units or townhouse units. It applies to (1) single-family detached houses with three or fewer stories above grade and (2) two-family dwelling units (duplexes) with three or fewer stories above grade. Although FEMA P-804 is primarily intended to be applied in hurricane-prone regions as defined by the most current publication of ASCE/SEI 7, it may also be applied to non-coastal areas subject to high winds.

- Strengthening vents and soffits.
- Connecting structural systems to provide a continuous path for all loads (gravity, uplift and lateral) to be passed from the building exterior surfaces to the ground through the foundation.
- Strengthening overhangs.
- Bracing gable end walls.
- Lateral force resisting system.
- Anchoring rooftop equipment.
- Strengthening connections to attached structures.

Hurricane-prone regions, as defined by the most current publication of [ASCE/SEI 7](#), *Minimum Design Loads for Buildings and Other Structures*, may have additional requirements for protecting buildings from wind and wind-borne debris. More information can be found in FEMA P-804 and [FEMA Hurricane Michael Recovery Advisory 1](#), *Successfully Retrofitting Buildings for Wind Resistance* (June 2019).

Wind retrofits may provide better protection for occupants; however, buildings with wind retrofits do not provide near-absolute protection (a very high probability of being protected from injury or death) from wind and windborne debris for occupants as a safe room would. FEMA P-320, *Taking Shelter from the Storm: Building a Safe Room for Your Home* (Fifth Edition, 2021c), includes prescriptive design plans that provide homeowners and their builders/contractors with information on how to construct a safe room to serve one- and two-family residential buildings. For more information, see FEMA P-320 and Part 12.H of the HMA Guide.

J.1.2.4. Wildfire Retrofit

Retrofitting for wildfire involves structurally protecting buildings using non-combustible materials and technologies. Wildfire retrofits are more effective in conjunction with other wildfire mitigation measures.

Examples of building components that may benefit from a wildfire retrofit include:

- Roofs.
- Eaves, overhangs, and soffits.
- Exterior walls.
- Windows.
- Exterior doors.

- Foundations.

For additional information on specific wildfire retrofitting activities and best practices, refer to FEMA P-737, *Home Builder’s Guide to Construction in Wildfire Zones* (September 2008).

Wildfire retrofitting also includes replacing water systems that have been burned and have caused contamination. Wildfires generate intense heat that can adversely impact water system components both on the surface and underground. If intense heat modifies the chemical properties of water system components, chemicals might leach into the water, causing contamination. Infrastructure retrofits that reduce future risk to existing utility systems, including water systems, are eligible under HMA programs. The hazard mitigation measures that are applied to the utility system can address more than just the hazard that caused the damage.

In addition to replacing water systems that have been burned, HMA can be used to mitigate:

- System components that have not been damaged but are like other systems that have sustained damage.
- Undamaged portions of systems that have been partially damaged.

For more examples of wildfire retrofit activities, refer to the Wildfire Mitigation project type section in [Part 12.I](#).

J.1.2.5. Snow Retrofit

Buildings and infrastructure can be protected from the impacts of winter storms with the following techniques:

- Adding building insulation to attic floors and ensuring adequate ventilation of the attic area can prevent roof snow melt that can cause ice dams to form and greater chances of water infiltration.
- Retrofitting buildings to withstand snow loads and prevent roof collapse. Refer to [FEMA Design Guide, Three-Dimensional Roof Snowdrifts](#) (Aug. 2019) for guidance on determining roof drift loads.

At a minimum, applicable HMA projects must meet or exceed the minimum requirements in Chapter 7 on “snow loads” in ASCE/SEI 7, *Minimum Design Loads for Buildings and Other Structures*. Additional guidance may be found in [FEMA P-957, Snow Load Safety Guide](#) (January 2013).

J.1.2.6. Extreme Temperature Retrofit

Extreme temperature retrofit projects can mitigate risk to people by providing a place for the general public to shelter from extreme temperature events (i.e., extreme heat and cold events). Retrofitting structures for extreme temperatures involves reducing heat gain (during extreme heat events) or heat loss (during extreme cold events) through both passive and mechanical means.

Passive extreme temperature retrofitting measures consist of retrofitting options that do not use mechanical heating or cooling. Passive extreme temperature retrofits reduce the energy demands of mechanical extreme temperature systems, which can alleviate demands on the electrical grid and reduce the risk of potential service disruptions.

Examples of extreme temperature retrofit projects include:

- Installing or upgrading a permanently (fixed) heating and/or cooling system.
- Upgrades to a roof and attic system, including painting the roof white or installing a green roof, creating a continuous wall to roof insulation system and upgrading a vent system.
- Exterior shading systems to reduce thermal gain.
- Improving or adding water, air, thermal, and vapor layers with continuous insulation to exterior wall systems.

J.1.2.7. Air Quality Retrofit

Retrofits to mitigate against current and future degraded air quality can protect human health and safety by preventing people from breathing in harmful particulate matter caused by natural hazards (including dust and wildfire smoke).

Air quality retrofits have co-benefits with other retrofit activities, including heating and cooling systems and wildfire retrofits. These retrofit activities should reduce the infiltration and in-flow of particulate matter, such as dust, wildfire smoke, pollutants or air-borne illnesses.

Indoor air quality may be protected or improved with the following techniques:

- Upgrading air handling- systems (i.e., HVAC - refer to [Part 12.J.1.2.6](#)).
- Improving wall component openings, insulation, and venting.
- Operational windows to ensure ventilation and air flow in the event of a power outage.

J.1.2.8. Other Retrofit Activities

Other retrofit projects may be eligible for assistance under HMA programs. FEMA encourages applicants and subapplicants to explore projects not explicitly detailed in the HMA Guide.

J.1.3. Ineligible Activities

A general list of ineligible activities is included in [Part 4](#).

For extreme temperature retrofits, the following activities are ineligible:

- Extreme temperature retrofit as a stand-alone project. Extreme temperature retrofit projects must be combined with an eligible (construction) project subapplication.

For air quality retrofits, the following activities are ineligible:

- Air quality retrofit as a stand-alone project. Air quality retrofit projects must be combined with an eligible (construction) project subapplication.

For wind retrofit projects for one- and two-story residential buildings in hurricane-prone areas, ineligible costs include but are not limited to:

- Project activities and components not consistent with the Basic, Intermediate, or Advanced Mitigation Packages described in FEMA P-804.
- Uncertified construction products.
- Costs related to functionality or outfitting such as furniture, interior or exterior decorative elements and fixtures, floor treatments, electrical and plumbing utilities, and other finishing materials that do not enhance the structural performance of the house.
- Costs associated with the repair of gross negligence by a homeowner, previous homeowner or bank. This includes but is not limited to negligence, lack of maintenance and subsequent damage, termite infestation, and damage where there was a lack of termite inspections and termites were a known hazard.

J.1.4. Cost Effectiveness

Applicants and subapplicants must demonstrate that hazard mitigation projects are cost-effective. Pre-calculated benefits are available for hurricane wind retrofit measures. Projects must be consistent with [Part 5](#). Pre-calculated benefits are available for hurricane wind retrofit measures. Retrofit projects may be funded under the 5% initiative if it meets applicable requirements (refer to [Part 10](#)).

J.1.4.1. Pre-Calculated Benefits for Hurricane Wind Retrofit Measures: One- and Two-Family Residences

Hurricane wind retrofit projects are eligible for assistance under the HMGP, HMGP Post Fire and BRIC. FEMA has determined that applicants and subapplicants may use pre-calculated benefits to demonstrate the cost effectiveness of wind retrofit projects for existing one- and two-family residential buildings in hurricane-prone regions that comply with FEMA P-804. Using pre-calculated benefits eliminates the requirement for applicants or subapplicants to conduct a separate BCA for a hurricane wind retrofit project.

FEMA P-804 presents hazard mitigation measures in “Mitigation Packages.” A Mitigation Package is a combined set of retrofit measures that must be implemented for a house to provide a defined level of protection. FEMA P-804 identifies three successive Mitigation Packages: Basic, Intermediate, and

Advanced. They provide techniques to mitigate against wind-driven rain, while also strengthening the structural integrity of the house. Additionally, the Advanced Mitigation Package focuses on creating a strong, continuous load path from the roof to the foundation.

Pre-calculated benefits are available for hurricane wind retrofit projects with both Intermediate or Advanced Mitigation Packages, as outlined in FEMA P-804, with or without roof replacements. The benefits are based on FEMA’s existing methodology for evaluating the cost effectiveness of residential wind retrofit projects and use updated construction costs for the measures outlined in FEMA P-804.

Pre-Calculated Benefits for Wind Retrofits

Pre-calculated benefits can be used for hurricane wind retrofit projects under the HMGP, HMGP Post Fire and BRIC. These pre-calculated benefits will streamline the cost-effectiveness determination for residential wind retrofit projects.

For one- and two-family residential buildings in hurricane-prone regions, wind retrofit projects for the Intermediate and Advanced Mitigation Packages are considered cost-effective if the total project costs are equal to or less than its respective pre-calculated benefits value. For up-to-date information on the dollar value of pre-calculated benefits, visit FEMA’s [“How to Complete a Streamlined BCA”](#) webpage.

To use pre-calculated benefits, the subapplicant must meet the following requirements:

- Wind retrofit projects must be for one- or two-family dwellings, excluding manufactured homes and townhouse units, and must comply with FEMA P-804.
- Residential structures must be located in an area where wind speeds are greater than or equal to 120 mph for Risk Category II Buildings in accordance with the latest published edition of ASCE/SEI 7.
- Subapplications must include maps that clearly indicate the structures to be retrofitted as being in an area where wind speeds are greater than or equal to 120 mph to be eligible to use the pre-calculated benefits.
 - Structures in states, boroughs, counties, parishes and territories that meet the qualification requirements are automatically eligible to use the pre-calculated benefit costs if the application includes a map with the structures clearly indicated on it.
 - Structures in states, boroughs, counties, parishes and territories that are partially located in the 120-mph wind zone will need FEMA to make the determination on a case-by-case basis if the pre-calculated benefits can be used. Applicants and subapplicants will need to submit a map with the structures clearly indicated on it to FEMA, who will then determine if the structure is located in the wind zone and can use the pre-calculated benefits.

A cost estimate submitted for a hurricane wind retrofit project using the pre-calculated benefits must be developed using industry-accepted cost-estimation standards, vendor estimates or other sources. The costs identified cannot be used to estimate or develop application project costs. Only documented, eligible costs for completed work will be reimbursed. The pre-calculated benefits value may be adjusted by the applicant or subapplicant using the most current locality multipliers that are included in industry-accepted cost and pricing guides for construction.

If a multiplier is used, a copy of the source document must be included as part of the application for review and the methodology used to determine the increase must be demonstrated.

The pre-calculated benefits for wind retrofit projects cannot be combined with other benefits, such as those from the cost-effectiveness determination for acquisitions and elevations or from the BCA Toolkit.

For up-to-date information on the dollar value of the pre-calculated benefit, refer to FEMA's "[How to Complete a Streamlined BCA](#)" webpage.

J.1.4.2. Pre-Calculated Benefits for Hurricane Wind Retrofit Measures – Non-Residential Structures

Non-residential buildings in windborne debris regions have two options of mitigation packages eligible for the pre-calculated benefits:

- **Option 1:** Opening protection for doors, windows and louvers against wind-borne debris, wind-driven rain and high wind pressure; and roof retrofit, which consists of securing rooftop equipment, replacing roof decking and covering.
- **Option 2:** Opening protection, roof retrofit and improvement to or creating a continuous load path from the roof to the foundation.

Eligible structures must have primary structural framing that consists of steel, concrete or reinforced masonry. Structures composed of other building materials, such as wood, steel stud and unreinforced masonry, are not eligible for this pre-calculated benefit. When retrofitted, structures will comply with or exceed the loading requirements of the latest published editions of the IBC, International Existing Building Code, the latest published edition of ASCE/SEI 7, FEMA 577: *Design Guide for Improving Hospital Safety in Earthquakes, Floods, and High Winds* (June 2007), and the requirements of the locally enforced building code. In the event of conflicting requirements, the most stringent one must be used.

Applicants must provide maps with structures clearly indicated as being in a windborne debris region to be eligible to use the pre-calculated benefits.⁴⁴⁷ Additionally, the project must have a useful life of at least 25 years.

Hazard mitigation projects meeting the above criteria are considered cost-effective if the hazard mitigation projects cost less than 10% of the replacement cost value. This eliminates the requirement for applicants to conduct a separate BCA for eligible projects. The benefits are based on FEMA's existing methodology for evaluating the cost effectiveness of non-residential wind retrofit projects.

Applicants must document the source used to determine the replacement cost value. Additionally, budgets submitted with projects for hurricane wind retrofits that use the pre-calculated benefits must be developed using industry cost-estimation standards, vendor estimates or other industry acceptable sources. The benefits identified here cannot be used to estimate or develop application project costs. Projects must still meet all other HMA program requirements.

J.1.4.2.1. Puerto Rico and the U.S. Virgin Islands

Non-residential wind retrofit projects in Puerto Rico and the U.S. Virgin Islands may use the pre-calculated benefit if the total hazard mitigation project cost is less than 25% of the replacement cost value.

J.1.5. Feasibility and Effectiveness

Projects must be consistent with [Part 4](#). Hazard mitigation projects assisted by HMA must be both feasible and effective at mitigating the risks of the hazard(s) for which the project was designed. A project's feasibility is demonstrated through conformance with accepted engineering practices, established codes, standards, modeling techniques or best practices.

J.1.6. Environmental and Historic Preservation

All subapplications submitted to FEMA must meet the eligibility criteria in [Part 4](#). All subapplications must have a scoping narrative in accordance with [Part 6](#).

The [Hurricane Wind Retrofit Technical Review](#), [Seismic Retrofit Technical Review](#) and [Hurricane Wind Retrofit: Information Required for Environmental Review](#) FEMA job aids list the documentation needed for FEMA to complete the EHP compliance review process for projects.

⁴⁴⁷ Windborne debris regions can be identified using the Applied Technology Council [“Hazards by Location”](#) website or other authoritative sources. More information can be found in FEMA P-804.

J.2. Retrofit: Application and Submission Information

All subapplications submitted to FEMA must meet the eligibility criteria in [Part 4](#). All subapplications must have a scoping narrative in accordance with [Part 6](#). Project-specific criteria are highlighted below.

FEMA may request additional information after the subapplication has been submitted to ensure all necessary information is received. However, all information required by the regulations and the HMA Guide must be received before an assistance decision and award or final approval can be made.

J.2.1. Property Location

All subapplications must include latitude/longitude to the nearest sixth decimal place, site photographs, site maps, and project plans and specifications.

J.2.2. Scope of Work

The scope of work must contain sufficient detail to evaluate effectiveness in reducing the identified natural hazard(s). It must also be detailed enough to develop a reasonably accurate budget. Technical documentation (including sketches and engineering calculations) should be provided with the subapplication to demonstrate that the proposed work will successfully mitigate against future natural hazard damage.

The scope of work should include the following as well as applicable references and supporting documentation:

- Description of any work required to be compliant with any federal, state and local laws, regulations and ordinances, such as historic preservation issues or accessibility requirements.
- References to all design provisions consulted including federal, state and local building codes and standards.
- Level of protection provided by the proposed project.
- Any residual risk to the structure from all hazards after project implementation.
- Description of the proposed activity to correct the identified non-structural deficiencies including a discussion of any alternative schemes considered.
- Description of design criteria.

J.2.2.1. Structural Seismic Retrofit

At a minimum, the following items must be included:

- Geotechnical conditions (e.g., site classification according to ASCE 7 and identification of known geologic/seismic hazards [fault rupture, liquefaction, landslide, etc.]). Site class D may be assumed if information is not available.
- Site-specific ground acceleration data.
- Description of any damage sustained in past earthquakes.
- Descriptions of all identified seismic deficiencies including overstressed structural elements, soft or weak stories, plan or vertical irregularities, excessive deflections, non-continuous load paths and areas of low ductility.
- Description of non-structural elements that could interact with the structural elements during an earthquake.
- Description of the intended Seismic Force-Resisting System in conformance with ASCE 7 Table 12.2-1 or a combination of systems as permitted in Sections 12.2.2, 12.2.3, and 12.2.4 of ASCE 7.

The current engineering practice is to design for a maximum considered earthquake used for collapse prevention. Except in near-fault areas, it is equivalent to the earthquake having a 2% chance of exceedance or 1% probability of collapse in 50 years. For new construction, it is generally multiplied by a factor of two-thirds to produce life safety-level design. Site-specific seismic hazard data is required for both evaluation and design. This data consists of the MCE_R spectral response accelerations for periods of S_S and S_1 . Values for these parameters can be obtained from the U.S. Geological Survey website⁴⁴⁸ as well as ASCE/SEI 7. This data is also available in the most recent edition of the IBC and may be available in the subapplicant's local building code. Alternatively, the seismic response parameters/acceleration or performance parameters from ASCE 41 can be used.

The following information regarding the building should be included in the property description of the application:

- Age of structure entered as year built.
- Date of any upgrades or additions.
- Building type.⁴⁴⁹
- Site classification.⁴⁵⁰

⁴⁴⁸ <https://www.usgs.gov/natural-hazards/earthquake-hazards/maps>

⁴⁴⁹ ASCE/SEI 41

⁴⁵⁰ ASCE/SEI 7

- Risk category.⁴⁵¹
- Foundation type.
- Number of floors, including basement, and dimensions including inter-story heights.
- Floor and roof diaphragm construction (to evaluate flexibility).
- Location of any seismic isolation joints.
- Description of architectural finishes (floors, walls and ceilings) and glazing.

J.2.2.2. Non-Structural Seismic Retrofit

At a minimum, the following items must be included:

- Site-specific seismic hazard data for the MCE_R spectral response accelerations for periods of S_s and/or S_1 . Refer to ASCE/SEI 7 for more information on seismic design criteria.
- Description of any damage sustained in past earthquakes.
- Descriptions of all identified non-structural seismic deficiencies.

The current engineering practice is to design for an MCE_R used for collapse prevention. Except in near-fault areas, it is equivalent to the earthquake having a uniform risk of 1% chance of causing building collapse in 50 years. For new construction, it is generally multiplied by a factor of two-thirds to produce life safety level design. Site-specific seismic hazard data is required for both evaluation and design. This data consists of the MCE_R spectral response accelerations for periods of S_s and S_1 . Values for these parameters can be obtained from the U.S. Geological Survey website as well as ASCE/SEI 7 or [FEMA P-2082](#), *National Earthquake Hazards Reduction Program Recommended Seismic Provisions for New Buildings and Other Structures* (2020). This data is also available in the 2018 IBC and may be available in the subapplicant's local building code.

The following information regarding the building should be included in the property description of the application:

- Age of structure entered as year built.
- Date of any upgrades or additions.
- Building type.⁴⁵²

⁴⁵¹ ASCE/SEI 7

⁴⁵² ASCE/SEI 41, Seismic Evaluation and Retrofit of Existing Buildings, Table 3-1

- Site classification.⁴⁵³
- Risk category.⁴⁵⁴
- Foundation type.
- Number of floors, including basement and dimensions including inter-story heights.
- Floor and roof diaphragm construction (to evaluate flexibility).
- Location of any seismic isolation joints.
- Description of architectural finishes (floors, walls and ceilings) and glazing.

J.2.2.3. Wind Retrofits for One- and Two-Family Buildings

For wind retrofit projects for one- and two-family residential buildings in hurricane-prone regions, residual risk must be identified.

Additionally, the following should be included in the scope of work:

- Inspection of the structure to determine its condition.
- The Mitigation Package that would be best suited for the structure.
- Design of the retrofits.
- Construction/post-construction inspections certifying that the work was performed in accordance with the design.

J.2.3. Activities Description and Schedule

As part of the scope of work, all subapplications must include an activities description of the hazard mitigation activity. The scope of work must include all activities necessary for completing the project and should reference industry standards or project plans and specifications.

The subapplication must contain a schedule for accomplishing the proposed work. The following project elements should be included in the work schedule:

- Architectural/engineering design including schematic, design development and contract document phases.
- Materials testing or other anticipated studies.

⁴⁵³ ASCE/SEI 7, Chapter 20

⁴⁵⁴ ASCE/SEI 7, Table 1.5-1

- Advertising, bid and award of contract(s).
- Permitting.
- Temporary relocation of occupants and contents, if needed.
- Contractor mobilization.
- Construction, including milestones such as inspections certifying occupancy.
- Reoccupation of facility.
- Closeout.

J.2.4. Budget

All subapplications must include a line-item breakdown of all anticipated costs. Refer to [Part 6](#) for more information.

The budget describes all anticipated and potential costs associated with the proposed project activity and represents the subapplicant's best estimate of the proposed activity's total value. Sufficient detail should be provided regarding various cost items. Backup documentation for all costs, including the basis for each, should be provided (e.g., bids from qualified professionals, nationally published or local cost estimating guides). Also, the budget should reference the base year for all cost data used. Costs should be provided for the following tasks:

- Architectural/engineering design.
- Materials testing or other anticipated studies.
- Permits.
- Installation of retrofitting measures.
- Any additional work required including the demolition/restoration of architectural finishes as well as work to the building's utility systems.
- Temporary relocation including rental and moving expenses (out and back).
- Compliance with federal, state and local laws, regulations and ordinances, such as historic preservation issues or required accessibility upgrades.

Subapplicants may apply for subrecipient management costs to cover administrative costs. Management costs must be included in the subapplication budget as a separate line item. More information about the requirements for management costs requests can be found in [Part 13](#).

J.2.5. Costs

For wind retrofit projects in one- and two-family residential buildings in hurricane-prone areas, FEMA will only compensate costs that are consistent with the Basic, Intermediate, and Advanced Mitigation Packages described in FEMA P-804.

Eligible costs consistent with these Mitigation Packages include:

- Labor for key personnel (such as the evaluator, inspector and registered design professional).
- Other costs to complete the structure evaluation and inspection.
- Planning and design activities.
- Site preparation, building materials and construction.
- Structural systems capable of resisting design wind loads (including roof decking and roof support structures).
- Soffits, vents and turbines.
- Protective envelope components such as walls, ceiling/roof systems, and doors.
- Other retrofit hardening activities that meet the criteria in FEMA P-804.

J.3. Retrofit: Subaward Implementation

The following are basic steps in implementing an approved HMA retrofit project:

1. Pre-construction (acquire land and/or easements, if applicable; carry out design process; seek technical consultant; prepare cost estimate; obtain construction permits, including required environmental permits; hire construction manager/contractor).
2. Coordinate any needed closures or outages.
3. Clear site/site preparation; install erosion control measures to prepare for construction activities.
4. Construct in accordance with approved project plans and specifications.
5. Conduct inspections and obtain certifications.
6. Prepare the operations and maintenance plan.

Post-award monitoring helps ensure subrecipients are achieving the objectives of the federal award consistent with the performance goals and milestones described in the subaward. To assist the recipient in monitoring retrofit projects, the following information should be included in Quarterly Progress Reports:

- If the subrecipient is acquiring contract support, the subrecipient should report when the request for proposal is completed, when the contract is out for bid, when the bid period closes, when proposals are reviewed, when the contractor is selected and the date of the kickoff meeting.
- Describe the current status including a summary of:
 - Recent progress and planned work.
 - Risks identified or changes from the milestones/deliverables submitted with the scope of work (e.g., financial concerns, coordination issues with state or local governments and utilities, project management or contracting issues, legal disputes, and significant changes impacting construction activities or timelines such as delays due to weather, materials, procurement or labor issues).
- When construction has started, is substantially complete or completed.
- Any other milestones that have been identified in the subapplication, agreed to, or are required by the recipient.

J.3.1. Budget and Scope of Work Change

Recipients are required to report deviations from budget, project scope or objectives in accordance with [Part 8](#). Recipients must request prior written approvals from FEMA for certain budget and program plan revisions.⁴⁵⁵ If the final design is not complete prior to award, once the project is awarded, the design must be finalized by a licensed design professional. Any changes to the scope of work or budget because of completing the final design or to address permitting requirements must be consistent with [Part 8](#). Construction design activities are defined as construction activities for budgeting and scope of work purposes.

J.4. Retrofit: Closeout

Recipients and subrecipients must closeout projects in a timely manner consistent with [Part 9](#).

In addition to the typical HMA program closeout procedures, closeout of retrofit projects generally includes:

- Verification that completed projects provide the level of protection approved in the scope of work.
- Certification from a licensed professional engineer or architect that all retrofits meet the required code and standards for the project type. For one- and two-story residential wind retrofit projects, proof the project has been designed and implemented in accordance FEMA P-804.

⁴⁵⁵ [2 CFR § 200.308](#)

- Photos of the project site before and after construction. Photos should confirm the scope of work is completed.
- Latitude/longitude of the project site to the nearest sixth decimal place.
- A vicinity map and map of the SFHA if applicable.
- For properties located within the SFHA:
 - If applicable, a copy of the [Elevation Certificate \(FF-206-FY-22-152\)](#).
 - Recorded deed for each mitigated property, indicating compliance with the [Acknowledgement of Conditions for Properties Using FEMA Hazard Mitigation Assistance \(FF-206-FY-22-158\)](#).
 - Proof of appropriate level of flood insurance (such as a copy of the flood insurance policy).

HMA Grant Closeout Field Guides and Closeout Checklists can be found on FEMA’s “[HMA Monitoring and Closeout Guidance](#)” webpage.

J.5. Retrofit: Resources



Retrofit Resources

- *Hurricane Wind Retrofit, Application Overview:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-hurricane-wind-retrofits-application-overview.pdf
- *Hurricane Wind Retrofit, Application Instructions:*
https://www.fema.gov/sites/default/files/documents/fema_hmgp-hurricane-wind-retrofit-application-instructions.pdf
- *Hurricane Wind Retrofit Technical Review job aid:*
https://www.fema.gov/sites/default/files/documents/fema_technical-job-aid-hurricane-wind-retrofit.pdf
- *Hurricane Wind Retrofit, Information Required for Environmental Review:*
https://www.fema.gov/sites/default/files/documents/fema_ehp-hurricane-wind-retrofit-job-aid.pdf
- FEMA Building Science: <https://www.fema.gov/emergency-managers/risk-management/building-science>
- FEMA BCA: <https://www.fema.gov/grants/guidance-tools/benefit-cost-analysis>
- FEMA EHP review job aids: <https://www.fema.gov/grants/guidance-tools/environmental-historic/preparation-resources>

- *Infrastructure Retrofit Technical Review* FEMA job aid: https://www.fema.gov/sites/default/files/documents/fema_technical-job-aid-infrastructure-retrofit.pdf
- ASCE 41: <https://sp360.asce.org/PersonifyEbusiness/Merchandise/Product-Details/productId/233163464>
- FEMA P-547, *Techniques for the Seismic Rehabilitation of Existing Buildings*: <https://www.fema.gov/node/techniques-seismic-rehabilitation-existing-buildings>
- ASCE 7: <https://www.asce.org/asce-7/>
- Hurricane Michael Recovery Advisory 1, *Successfully Retrofitting Buildings for Wind Resistance*: https://www.fema.gov/sites/default/files/2020-07/successfully-retrofit-buildings-wind_hurricane-michael-florida.pdf
- FEMA Design Guide: *Three-Dimensional Roof Snowdrifts*: https://www.fema.gov/sites/default/files/2020-07/fema_roof_snowdrift_design_guide.pdf
- FEMA P-957, *Snow Load Safety Guide*: https://www.fema.gov/sites/default/files/2020-07/fema_snow_load_2014.pdf
- FEMA P-2018, *Seismic Evaluation of Older Concrete Buildings*: https://www.fema.gov/sites/default/files/2020-08/fema_seismic-eval-older-concrete-buildings_p-2018.pdf
- FEMA P-1100, *Vulnerability-Based Seismic Assessment and Retrofit of One- and* https://www.fema.gov/emergency-managers/risk-management/building-science/publications?name=p-1100&field_keywords_target_id=49441&field_document_type_target_id=All&field_audience_target_id=All
- FEMA 351, *Recommended Seismic Evaluation and Upgrade Criteria for Welded Steel Moment-Frame Buildings*: https://www.fema.gov/emergency-managers/risk-management/building-science/publications?name=351&field_keywords_target_id=49441&field_document_type_target_id=All&field_audience_target_id=All
- FEMA P-804, *Wind Retrofit Guide for Residential Buildings*: https://www.fema.gov/emergency-managers/risk-management/building-science/publications?name=P-804&field_keywords_target_id=All&field_document_type_target_id=All&field_audience_target_id=All
- FEMA P-499, *Technical Fact Sheet No. 9.2, Repairs, Remodeling, Additions, and Retrofitting—Wind*: https://www.fema.gov/sites/default/files/2020-08/fema499_2010_edition.pdf

- FEMA P-424, *Design Guide for Improving School Safety in Earthquakes, Floods, and High Winds*:
https://www.fema.gov/sites/default/files/documents/fema_p-424-design-guide-improving-school-safety.pdf
- FEMA P-543, *Design Guide for Improving Critical Facility Safety from Flooding and High Winds*:
https://www.fema.gov/sites/default/files/2020-08/fema543_design_guide_complete.pdf
- FEMA P-577, *Design Guide for Improving Hospital Safety in Earthquakes, Floods, and High Winds*:
https://www.fema.gov/emergency-managers/risk-management/building-science/publications?name=&field_keywords_target_id=50665&field_document_type_target_id=All&field_audience_target_id=All
- FEMA P-2062, *Guidelines for Wind Vulnerability Assessments of Existing Critical Facilities*:
https://www.fema.gov/emergency-managers/risk-management/building-science/publications?name=Wind++Vulnerability+Assessments&field_keywords_target_id=All&field_document_type_target_id=All&field_audience_target_id=All
- *Seismic Retrofit Technical Review* FEMA job aid:
https://www.fema.gov/sites/default/files/documents/fema_technical-job-aid-seismic-retrofit.pdf
- *ASCE 41*: <https://sp360.asce.org/PersonifyEbusiness/Merchandise/Product-Details/productId/233163464>
- CDC, *Extreme Heat and Your Health*: <https://www.cdc.gov/extreme-heat/about/>
- Ready.gov, *Winter Weather*: <https://www.ready.gov/winter-weather>
- EPA, *Improving Indoor Air Quality (IAQ)*. <https://www.epa.gov/indoor-air-quality-iaq/improving-indoor-air-quality>

K. Secondary Power Source

Secondary power sources increase power system resilience and mitigate the impacts of natural hazards while increasing the resilience of critical functions. Secondary power sources include generators, microgrids and backup battery systems. Additional secondary power sources not listed may be eligible and will be reviewed on a case-by-case basis.

The purchase and installation of secondary power sources and related equipment, such as hookups and transfer switches, are generally eligible if they are cost-effective, contribute to a long-term solution to the problem they are intended to address, and meet all other program eligibility criteria.

K.1. Secondary Power Source: Eligibility

Secondary power sources for critical facilities must be protected as a Risk Category IV and a Flood Design Class 4 facility. For additional information about design classes, refer to ASCE 7. For additional information about flood design classes, refer to Table 7-1 in ASCE 24.

K.1.1. Generator Eligible Activities

Generators, including combined heat power systems, are emergency equipment that provide a secondary source of power. The type of generator, portable or permanent (fixed), is irrelevant to the eligibility if the project that the generator is used for, or the generator (and related equipment), meet the requirements of the program and the HMA Guide.

Generators and related equipment (e.g., hookups) are eligible under HMGP, HMGP Post Fire and BRIC if they contribute to a long-term solution to the problem they are intended to address. Generator projects must be cost-effective. If there is insufficient data to evaluate the generator project using standard BCA methods, the project may be eligible under the 5 Percent Initiative.

A permanent generator, also referred to as a fixed or standby generator, is a permanently installed generator that provides power by being hard-wired into the facility's main distribution panel and can be started manually or automatically in the event of a power outage. During a power failure, an automatic transfer switch isolates the electrical wiring from the utility grid and signals the generator to start functioning. The generator begins to feed power to the lines. When power is restored, a reverse action takes place, the incoming feed is once again procured from utility lines, and the generator ceases to function and goes into a standby mode.

Portable generators work with stand-alone applications and are meant to temporarily energize a few critical applications via external cords. These are usually functional for a short period of time. Different models of portable units can be fueled using one or more energy sources, such as gasoline, diesel, propane or natural gas.

Hookups provide a pre-installed connection for generators to be connected to the facility's electrical system quickly when needed. Transfer switches are devices that safely connect standby or emergency generators to the electrical system.

There are two types of transfer switches:

- **Manual transfer switches:** Used to transfer power between the utility and portable or optional standby generators. Manual transfer switches must be operated manually when utility power is lost and when it is restored. The switches can be wired to a separate subpanel to run essential circuits in the building, such as lights, or they can be wired to run the entire building if the attached generator is sufficiently sized. Manual transfer switches are most used when a portable generator system is involved but may be used with fixed generators.

- **Automatic transfer switches:** Automatically starts the generator and provides power from the generator to the facility when a utility power loss is detected. Automatic transfer switches also retransfers the facility back to the utility when the utility power is restored and shuts down the generator. Automatic transfer switches can be beneficial because of their simplicity and automatic action but are generally more expensive. Automatic transfer switches are typically only used with fixed generators. Applicants should discuss their needs with a licensed electrician or a licensed electrical engineer to determine which type of transfer switch would be better suited for each project.

Fuel is needed for most generators to function. Natural gas is piped from a utility, while propane and diesel use fuel tanks. The diesel fuel tanks need some form of spill prevention, usually in the form of a double walled tank. Propane and diesel tanks are mounted on concrete pads. Diesel tanks can be mounted below the generator as a subbase fuel tank.

Generators and/or related equipment are eligible:

- As a stand-alone project if the generator protects a critical facility.
- As a functional portion of an otherwise eligible hazard mitigation solution (whether the facility is critical or not).

Related equipment is eligible if it is necessary to distribute power efficiently and effectively from a generator (e.g., generator hookups and pads).

For generators that are components of larger projects, the costs and benefits from the generator, along with any related equipment, may be aggregated with the costs and benefits from the other part of the project.

For purposes of eligibility, the size of the generator may be relevant. In general, to be eligible the generator size must be appropriate for the facility; the appropriate size may vary by facility and generator usage. It is not always necessary for the generator to support a facility's operation to its full capacity, but it must be sized appropriately to ensure the facility can provide uninterrupted critical functions in the event of future power outages. Determining what facility functions the generator needs to support is crucial in selecting the correct generator for the facility. The rated output of the selected generator must be matched to the maximum anticipated capacity needed.

K.1.2. Microgrid Eligible Activities

A microgrid is a group of interconnected energy-consuming devices and equipment (e.g., homes, businesses or industrial facilities) and distributed energy resources within clearly defined electrical boundaries that act as a single controllable entity with respect to the utility grid. These microgrids generally operate while connected to the utility grid but control capabilities such as smart controls, enable these microgrid systems to disconnect from the conventional utility grid, and operate autonomously to meet anticipated or potential utility outages.

A microgrid typically consists of a smart distribution network limited to a well-defined boundary, a load management system, distributed energy resources and storage solutions. Distributed energy resources generate power in the form of engine generators or another power generation source.

With the ability to disconnect and operate independently, microgrid systems can provide for grid resilience, mitigate disturbances caused by natural disasters, and allow for faster system response and recovery. The presence of a storage system (e.g., battery), with sufficient capacity for the specific application, such as waiting out the transition of power during a utility outage (which could range from a few seconds or minutes to hours or even days), can also reduce the loss of function of critical infrastructure.

Microgrids are eligible under HMGP, HMGP Post Fire and BRIC. Unlike generators, microgrids are not limited to critical facilities. Microgrid projects will be evaluated by FEMA on a case-by-case basis, given that they meet other program requirements.

K.1.3. Backup Battery System Eligible Activities

A backup battery system is an energy storage resource capable of receiving electrical power from a conventional utility grid or other electrical power source and storing it for later use. Battery systems can be located at the transmission-system level or at the customer level. On the utility scale these systems are typically used for managing power demand, but on the customer level a battery system can be used to provide backup power during utility outage events. The battery system achieves this by being connected to the utility grid during normal utility operation so it can maintain a full charge, and when the system senses the utility source is inadequate, the system disconnects from the conventional utility grid to provide the customer with power.

Battery systems are measured by a kilowatt rating and a kilowatt-hour rating. The kilowatt rating is a measure of instantaneous power output. The kilowatt-hour rating is a measure of battery capacity. For example, a 50 kilowatt, 100 kilowatt-hour battery system could continuously supply power to a 25 kilowatt load for four hours but would not be able to sufficiently power a 75 kilowatt load, as the battery system kilowatt rating is too low.

With the ability to disconnect and operate independently, backup battery systems can provide for grid resilience, mitigate disturbances caused by natural disasters, and allow for faster system response and recovery. The battery system can be selected to meet the needs of the specific intended applications during a utility outage to reduce the loss of function of critical infrastructure. Subapplicants must clearly document how a proposed battery system’s capacity, including limitations without a power source, can meet the performance requirements to support the resilience of critical functions.

Backup battery systems are eligible under HMGP, HMGP Post Fire and BRIC. In general, to be eligible the battery system size must be appropriate for the facility. It is not often necessary for the battery system to support a facility’s operation to its full capacity, but it must be sized appropriately to ensure the facility can provide uninterrupted critical functions in the event of future power outages.

Determining what facility functions the backup battery system needs to support is crucial in selecting the correct battery system for the facility. The rated power output, in kilowatts, of the selected battery system must be matched to the maximum anticipated capacity needed. The rated energy storage capacity, in kilowatt-hours, must be selected to provide emergency power for sufficient time to mitigate a loss of function due to a natural hazard or for a secondary power source to provide power to the facility and charge the battery system. While there is no minimum duration established, subapplicants must clearly document how long a proposed battery system can support the resilience of critical functions and ensure that duration is consistent throughout the subapplication, including the level of effectiveness assumed in the BCA.

Backup battery systems are eligible under the following scenarios:

- As a stand-alone project if the battery system protects a critical facility.
- As a functional portion of an otherwise eligible hazard mitigation solution (whether the facility is critical or not).

Related equipment is eligible if it is necessary to distribute power efficiently and effectively from the backup battery system (e.g., convertors and pads).

For backup battery systems that are components of larger projects, the costs and benefits from the battery system, along with any related equipment, may be aggregated with the costs and benefits from the other part of the project.

K.1.4. Ineligible Activities

The purchase of a secondary power source must be for a critical facility or constitute a functional portion of an otherwise eligible hazard mitigation solution. The purchase of a secondary power source for the singular purposes of maintaining power for a single residential structure is therefore not an eligible activity for purposes of HMGP, HMGP Post Fire and BRIC.

A general list of ineligible activities is included in [Part 4](#).

K.1.5. Cost Effectiveness

Applicants and subapplicants must demonstrate that hazard mitigation projects are cost-effective. Projects must be consistent with [Part 5](#).

Information needed for performing the BCA for secondary power source projects may vary by facility. The following are typically key inputs in the BCA for purposes of secondary power source projects:

- **Project useful life:**
 - **Generators:** According to [OMB Circular A-76 – Revised Appendix 3, Useful Life and Disposal Value](#), the useful life for generators or generator sets is 19 years. This value can be used as the default useful life value when performing the BCA. It may be altered based on

manufacturer warranty or other documentation that can demonstrate that the generator may be able to provide service for longer than 19 years.

- **Microgrids:** The project useful life ranges from 20 to 35 years and is most likely dependent on the secondary power source. The project useful life can be estimated longer dependent on the microgrid components and whether maintenance cost is incorporated to account for components being replaced.
- **Battery backup systems:** The current project useful life typically lasts up to 10 years.
- **Project costs:** The cost of a secondary power source varies by size, installation and purpose. The secondary power source's size and specifications must be reasonable, appropriate and necessary to continuing the critical functions of the facility. The subapplicant should (1) provide the exact costs for the secondary power source, installation and components and (2) include the costs in the BCA.
- **Facility and value of service:** For potable water, wastewater, police and fire stations and hospital facilities, analyses can be performed via the Historic/Professional Expected Damage methodology in the BCA Toolkit, which provide service values for these facilities. To use these values, the BCA Toolkit requires information regarding the population served by the facility. For example, if a secondary power source is to be installed at a wastewater treatment plant, the BCA Toolkit user must input how many customers are served by the facility and how many days the facility was inoperable because of power failure. These values can typically be obtained from the facility manager and can be provided on official letterhead for documentation purposes.
- **Recurrence intervals:** Recurrence information used in the analysis may vary by location or by the hazard that is anticipated to be or is the cause of power failure, such as wind or flood.
- **Other benefits:** Other benefits (or costs avoided) may be included if they are addressed by the secondary power source project if they are a direct result of interrupted power service that a secondary power source would have mitigated.

Information on pre-calculated benefits for generators for certain types of hospital projects can be found in [Part 12.K.1.5.3](#) or on the FEMA "[Benefit-Cost Analysis](#)" webpage.

K.1.5.1. Recurrence Intervals

The following tools may be useful in determining a recurrence interval for secondary power source projects:

- If the facility lost power because of wind damage to power lines feeding the facility, the analyst can use the [Applied Technology Council Wind Speed Tool](#) to determine the frequency of the coastal wind event.

- If power outages are attributed to flooding, recurrence information for the flooding event should be used in the analysis. The National Weather Service’s [Precipitation Frequency Data Server](#) can be used to establish a frequency for various precipitation events.
- U.S. Geological Survey stream gauge data can also be used to extrapolate frequency information for flood events; details of this can be found in the [Supplement to the Benefit-Cost Analysis Reference Guide](#) FEMA guidance (June 2011).
- The [National Snow and Ice Data Center](#).
- Default values from the generator module of the BCA Toolkit.
- Insurance claims, damage repair records or data from a state/local agency or local government newspaper accounts citing credible sources (other than anecdotal accounts) could be used in conjunction with the Unknown Frequency Calculator within the BCA Toolkit. Using this method may require more time as three events are required to complete the analysis.

K.1.5.2. Additional Benefits

All costs associated with power failure that would be mitigated by a secondary power source should be considered. For example, a wastewater treatment plant sometimes requires additional costs to bring the facility back to operating status after an extended power failure. This may include the removal of sludge in equipment or additional labor hours needed to bring the facility back to operational status. Those additional costs can be included above and beyond the value of service costs if a secondary power source would have prevented those additional costs.

To the extent they can be captured and justified, environmental cleanup costs associated with raw sewage discharge can be included in the BCA for wastewater treatment plants. FEMA does not have a default value for these associated costs, and these costs will vary by location. The subapplicant should include all reasonable costs that will be mitigated by having a secondary power source installed at a facility.

Additionally, finding the value (in loss of service terms) of a state emergency operations center to prove the cost effectiveness of a secondary power source project is difficult. FEMA will allow reasonable and justified loss of service costs for state and local emergency operations centers identified by the subapplicant to be entered into the BCA Toolkit to evaluate the cost effectiveness of an emergency operations center secondary power source project. An additional option is to investigate the costs of remobilizing an emergency operations center to an alternate/continuity of operations location that could be avoided should the emergency operations center be supplied with an uninterruptible power source.

K.1.5.3. Pre-Calculated Benefits for Hospital Generators

FEMA established the use of a pre-calculated benefit to demonstrate cost effectiveness for certain hospital generator projects.

The pre-calculated benefit is available for hospital generator projects if all the following requirements are satisfied:

- The hospital must have an emergency department.
- The project represents a stand-alone solution.⁴⁵⁶ The subapplication must provide enough information to demonstrate technical feasibility and effectiveness of the hazard mitigation solution. This includes information from a licensed design professional for cost, generator capacity related to critical services throughout the hospital, and scope for a transfer switch, fuel storage and other required components.
- If the generator is part of a larger project, the pre-calculated benefits from the generator portion cannot be combined or aggregated with the benefits from another portion of the project.
- The total cost of the project must be less than or equal to the pre-calculated benefits.⁴⁵⁷
 - The pre-calculated benefits value for a hospital generator project are based on the hospital building gross square footage and whether the hospital is located in an urban or rural area.⁴⁵⁸ For purposes of this pre-calculated benefit, “urban” is defined as any location within an urbanized area as defined by the Census Bureau.⁴⁵⁹ “Rural” is defined as any location outside of an urbanized area (including urban clusters). For up-to-date information on the dollar value of the pre-calculated benefit, refer FEMA’s “How to Complete a Streamlined BCA” webpage.
 - Furthermore, all locations in Alaska, Hawaii, Puerto Rico, the U.S. Virgin Islands and other island territories are considered rural for the purposes of this pre-calculated benefit. The applicant or subapplicant must use the address or latitude/longitude of the hospital to determine urban/rural status; this designation cannot be applied countywide or across Metropolitan Statistical Areas.

Documentation that the project meets the criteria above must be included in the project subapplication to use this pre-calculated benefit to demonstrate cost effectiveness. Cost estimates must be based on industry standards, vendor estimates or other reliable sources.

K.1.6. Environmental and Historic Preservation

All subapplications submitted to FEMA must meet the EHP eligibility criteria in [Part 4](#). All subapplications must have a scoping narrative in accordance with [Part 6](#). Additionally FEMA job aid,

⁴⁵⁶ See, for example, [44 CFR 206.434\(c\)\(4\)](#). In other words, at the completion of the generator project, the project solves the problem independently and has all elements necessary to be fully capable of supplying power to the critical services throughout the hospital.

⁴⁵⁷ Total project costs include all project costs, not just the federal share.

⁴⁵⁸ A hospital in a rural area would have higher benefits than in an urban area because of the greater average distance to the next nearest hospital.

⁴⁵⁹ The Census Bureau is the only acceptable source for determining whether a location is within an urbanized area.

[Generators: Information Required for Environmental Review](#), provides supplemental environmental review details.

K.2. Secondary Power Source: Application and Submission Information

All subapplications submitted to FEMA must meet the eligibility criteria in [Part 4](#). All subapplications must have a scoping narrative in accordance with [Part 6](#). Project-specific criteria are highlighted below.

FEMA may request additional information after the subapplication has been submitted to ensure all necessary information is received. However, all information required by the regulations and the HMA Guide must be received before an assistance decision and award or final approval can be made.

The subapplication must include the following:

- **Scope of work:** Provide a project scoping narrative identifying the proposed hazard mitigation action and structures requesting backup power, including a description of the proposed activities, information on the critical facility, hazard mitigation alternatives and an explanation of how the project will mitigate risk. The scope of work must include key milestones and correspond with the design information, project schedule and budget.
 - Microgrids must be designed in accordance with relevant industry standards to accomplish the intended risk reduction. Examples include the *Standard for Interconnection and Interoperability of Distributed Energy Resources with Associated Electric Power Systems Interfaces (IEEE 1547)* and the *Guide for Smart Grid Interoperability of Energy Technology and Information Technology Operation with the Electric Power System (IEEE 2030), End-Use Applications, and Loads*.
 - Backup battery systems must be designed in accordance with relevant industry standards to accomplish the intended risk reduction. Examples include the International Electrotechnical Commission and Underwriters Laboratories Inc. standards.
 - The subapplicant must illustrate that the project is either a stand-alone solution (incorporating new control capability, load management systems, distributed energy resources or storage solutions into an already resilient grid) or a component of an overall solution (new solutions being implemented along with retrofit measures to make the distribution of power more resilient).
- **Technical data to support the scope of work:** Technical data is necessary to demonstrate that a project is feasible and effective at reducing risk. This data may consist of information such as engineering or design plans showing the existing electrical system including the utility transformer(s) and the proposed secondary power source size, interconnections and fuel source. This information can be further developed following the award and should be accounted for in the scoping narrative, schedule and budget if not available during application development.

- **Critical facility information:** The information is necessary to demonstrate that the project is feasible and effective at reducing risk. Information on the facility may include the date the structure was built, building type and the functions provided, construction type, and additional details relating to the existing condition of the structure.
- **Project schedule:** The application must include a detailed project schedule for all tasks identified in the project budget and the scope of work. The schedule identifies major milestones with start and end dates for each activity. Project schedules must show completion of all activities (including construction period) within the period of performance allowed by the relevant HMA program. Sufficient detail must be provided so FEMA can determine whether the proposed activities can be accomplished within the period of performance.
- **Project budget:** The project budget must contain a detailed line-item budget for all tasks identified in the project schedule and the scope of work. All costs included in the application should be reviewed to verify they are necessary, reasonable and allocable consistent with the provisions of [2 CFR Part 200](#). Include sufficient detail so that FEMA can determine whether costs are reasonable based on proposed activities and level of effort. Costs incurred prior to award may be considered pre-award costs (and eligible for reimbursement) if they are incurred after the date of the major disaster declaration or FMAG declaration (HMGP and HMGP Post Fire). For BRIC and FMA, refer to the relevant Notice of Funding Opportunity for eligibility of pre-award costs.
- **Project location map:** The application must include a map showing the project location. If the project includes multiple sites, the map should show the project boundaries, including the staging area.
- **Property location information:** An application must contain the physical address and latitude and longitude coordinates to the nearest sixth decimal place of each critical facility in the project application. If the project has multiple properties, the information for all properties should be provided. In general, a post office box number is not an acceptable address. If the address provided does not clearly match up with the structure(s) to be mitigated, provide photos or a site map with the structure(s) footprint(s) clearly identified.
- **Flood Insurance Rate Map:** The applicant should determine whether the project is located in a floodplain and provide a FIRM showing the project location. The applicant should include a description of the flood zone in which the existing structure is located and whether the site is in a regulatory floodway.
- **Description of the hazard to be mitigated:** The application must include information on the risk to be mitigated. Hazard mitigation projects assisted under HMGP, HMGP Post Fire and BRIC must demonstrate the proposed hazard mitigation activity will address a problem that has been repetitive or that poses a significant risk to public health and safety if left unresolved. Secondary power source projects must document the risk to the critical facility from natural hazards. Because multiple natural hazards can disrupt power supply, specify which hazard(s) is causing

the loss of power that the secondary power source will mitigate and provide documentation of the hazard's risk. The risk to be mitigated can be based on either documented historical damage (such as loss of function during a previous disaster event) or professionally expected damage (estimated damage that has not yet occurred or that occurred but not to the extent possible).

Subapplicants may apply for subrecipient management costs to cover administrative costs. Management costs must be included in the subapplication budget as a separate line item. More information about the requirements for management costs request can be found in [Part 13](#).

K.3. Secondary Power Source: Subaward Implementation

The following are basic steps in implementing an approved HMA secondary power source project:

1. Pre-construction (carry out design process, seek technical consultant, prepare cost estimate, obtain building permits, hire project manager, hire construction manager/contractor).
2. Prepare site.
3. Install foundations and supports as needed.
4. Install secondary power source and supporting equipment.
5. Connect to utilities, battery system and/or to fuel system, as appropriate and required.
6. Conduct inspections.
7. Complete load testing.
8. Prepare operations and maintenance plans/agreements, which should include regular startup testing and load testing. Secondary power sources serving buildings should be tested in accordance with the latest published edition of [NFPA 110](#), *Standard for Emergency and Standby Power Systems*.

Post-award monitoring helps ensure subrecipients are achieving the objectives of the federal award consistent with the performance goals and milestones described in the subaward. To assist the recipient in monitoring secondary power sources projects, the following milestone information or events should be included in Quarterly Progress Reports:

- If the subrecipient is acquiring contract support, the subrecipient should report when the request for proposal is completed, when the contract is out for bid, when the bid period closes, when proposals are reviewed, when the contractor is selected and the date of the kickoff meeting.
- Describe the current status including a summary of:
 - Recent progress and planned work.
 - Risks identified or changes from the milestones/deliverables submitted with the scope of work (e.g., financial concerns, coordination issues with state or local governments and utilities, project management or contracting issues, legal disputes, and significant changes

impacting construction activities or timelines such as delays due to weather, materials, procurement or labor issues).

- When construction has started, is substantially complete or completed.
- Any other milestones that have been identified in the subapplication or agreed to or are required by the recipient.

K.3.1. Budget and Scope Work Change

Recipients are required to report deviations from budget, project scope or objectives in accordance with [Part 8](#). Recipients must request prior written approvals from FEMA for certain budget and program plan revisions.⁴⁶⁰

If the final design is not complete prior to award, once the project is awarded, the design must be finalized by a licensed design professional. Any changes to the scope of work or budget because of completing the final design or to address permitting requirements must be consistent with [Part 8](#). Construction design activities are defined as construction activities for budgeting and scope of work purposes.

K.4. Secondary Power Source: Closeout

Recipients and subrecipients must closeout projects in a timely manner consistent with [Part 9](#).

In addition to the typical HMA program closeout procedures, closeout of secondary power source projects generally includes:

- Inspection report that verifies all work noted in the scope of work was completed and is consistent with the size, specifications and installation method identified in the scope of work. The report must indicate the date the inspection was completed and who completed the inspection.
- Latitude/longitude to the nearest sixth decimal place of the project site and secondary power source location.
- Clearly labeled photographs, which must include a picture of the transfer switch. Photographs should also include a general overview of the installation and close-up views of the secondary power source.
- For portable generators, Standard Form 428, *Tangible Personal Property Report*, must be submitted if applicable to comply with disposition of equipment requirements. For more information, refer to [Part 9](#).

⁴⁶⁰ [2 CFR § 200.308](#)

HMA Grant Closeout Field Guides and Closeout Checklists can be found on FEMA’s ["HMA Monitoring and Closeout Guidance"](#) webpage.

K.5. Secondary Power Source: Resources



Secondary Power Source Resources

- Generator, Application Instructions: https://www.fema.gov/sites/default/files/documents/fema_hmgp-generators-application-instructionrs.pdf
- Generators, Application Review: https://www.fema.gov/sites/default/files/documents/fema_hmgp-generators-application-overview.pdf
- Generators, Information Required for Environmental Review job aid: https://www.fema.gov/sites/default/files/documents/fema_ehp-generators-job-aid.pdf
- Generator Technical Review job aid: https://www.fema.gov/sites/default/files/documents/fema_technical-job-aid-generator.pdf
- Generator, Application Example Document: https://www.fema.gov/sites/default/files/documents/fema_hmgp-generators-application-example.pdf
- EHP Review job aids: <https://www.fema.gov/grants/guidance-tools/environmental-historic/preparation-resources>
- FEMA BCA: <https://www.fema.gov/grants/guidance-tools/benefit-cost-analysis>
- OMB Circular A-76, Performance of Commercial Activities: https://www.whitehouse.gov/wp-content/uploads/legacy_drupal_files/omb/circulars/A76/a076.pdf
- ASCE Hazard Tool: <https://ascehazardtool.org/>
- Precipitation Frequency Data Server: <https://hdsc.nws.noaa.gov/pfds/>
- National Snow and Ice Data Center: <https://nsidc.org/>
- Online Generator Sizing Software (Caterpillar): <https://specsizer.cat.com/>

L. Warning System

Warning residents of impending hazards and automating certain risk reduction functions can reduce damage from natural disasters and improve hazard mitigation outcomes for people with disabilities and others with access and functional needs. Warning systems may include a variety of tools and equipment that warn people about natural hazards and impending risks.

L.1. Warning Systems: Eligibility

Warning systems may be eligible under HMGP, HMGP Post Fire, or BRIC if they meet general program eligibility requirements.

It is important that applicants describe how the warning system will be used to reduce potential injury and damage from a natural disaster (i.e., what actions will be associated with the warning).

Eligible warning system projects include but are not limited to the following:

- **Tornado sirens:** Some communities with frequent tornado watches and warnings have tornado sirens to give audible warning to residents in an area with a tornado warning. Other systems can alert the public through cell phones, such as the Integrated Public Alert and Warning System (IPAWS). IPAWS is a national system for local alerting that provides authenticated emergency alert and life-saving information messaging to the public through mobile phones using Wireless Emergency Alerts and to radio and television via the Emergency Alert System.
- **Tsunami warning systems:** Tsunami warning systems are used to issue warnings to the public to enable timely evacuation from coastal and other areas vulnerable to inundation. Tsunami warning systems can be used to notify the public of tsunami watches and warnings as they are issued by the U.S. Tsunami Warning System. Some tsunami warning systems consist of warning sirens, while others alert the public using wireless alerts issued via cell phone, radio, or television. Tsunami warning systems can also include signage to direct individuals to safe zones outside of the tsunami inundation area.
- **Enhanced or reversed 911 systems:** Enhanced 911 systems automatically provide the caller's location to the 911 dispatchers. These systems may provide an address or latitude and longitude so that cell phone users' locations can be determined. Reverse 911 systems allow safety organizations to alert individuals and businesses to the risk of danger by sending a recorded voice message to landline telephones and a recorded voice message or text message to registered cell phones within a defined geographic area.
- **Weather stations/rain gauges:** Weather stations typically monitor a combination of indoor and outdoor temperature, humidity and barometric pressure. Complete weather stations also monitor wind and rain using wind sensors and rain gauges, and some also measure ultraviolet index, soil moisture and water temperature. Rain gauges collect and measure the amount of rain that falls during a given period of time per unit area. They can be part of a total weather station or an

independent piece of equipment. Meteorologists and hydrologists use the information from these stations to predict future weather and refine forecast models.

- **Wildfire warning systems:** Installing warning equipment and systems, including electronic signs and signals, for warning residents about wildfire hazards and hazard identification-related equipment is an eligible activity. The general intent of these signs is to provide warning of fire risk and/or evacuation orders for people in the area.
- **Earthquake warning systems:** Earthquake early warning systems use seismic instrumentation to monitor seismic activity in real time to detect significant earthquakes near the source and transmit those signals to a seismic monitoring network. The monitoring network can quickly send out a warning to alert people within the region before shaking arrives. Seismic and geodetic sensors and infrastructure assisted under HMGP, HMGP Post Fire or BRIC must be integrated into an existing operational earthquake monitoring network, and data from these sensors must be freely available to the public. The following activities may support building capability for earthquake early warning systems:
 - Regional seismic networks.
 - Geodetic networks.
 - Seismometers, global positioning system receivers and associated infrastructure such as telemetry or computer processing needed to build capability for an earthquake early warning system designed as part of the Advanced National Seismic System or other existing state- or federally-supported earthquake monitoring networks. They must be part of a system that enables end user notification. FEMA, in consultation with the U.S. Geological Survey, determined the Advanced National Seismic System ShakeAlert system is the only system that currently enables end user notification.
 - “Last-mile” automated systems that protect critical infrastructure such as transportation systems or utilities with the goal of enhancing resistance to earthquake shaking and minimizing the downtime of critical systems.⁴⁶¹
- **Drought early warning:** An early warning system combined with the slow onset of a drought can provide adequate lead time to local decision makers to mitigate drought threats, for example, by arranging for emergency food supply or adaptive planning for water use. Examples of early warning systems for drought may include but are not limited to weather stations or rain gauges such as the Community Collaborative Rain, Hail and Snow Network (CoCoRaHS) and Integrated Information Systems. Additionally, the National Integrated Drought Information System provides tools and resources on the relationship between drought and wildfire. It is important for applicants and subapplicants to describe how the system will be used to reduce potential injury

⁴⁶¹ Cost effectiveness may have to be documented for last mile solutions for BRIC Program. Consult FEMA Regional Office.

and damage from drought as well as other natural disasters (e.g., what actions will be associated with the warning).

L.1.1. Ineligible Activities

HMGP, HMGP Post Fire and BRIC assistance are not available for warning systems' operations and maintenance costs. A general list of ineligible activities is included in [Part 4](#).

L.1.2. Cost Effectiveness

HMGP, HMGP Post Fire and BRIC warning system project subapplications must demonstrate project cost effectiveness using one of the methodologies described in [Part 5](#).

For HMGP and HMGP Post Fire, equipment and systems to warn residents of impending hazards may also be eligible under the 5 Percent Initiative if the activities are difficult to evaluate using FEMA-approved cost-effectiveness methodologies. For more information on the 5 Percent Initiative, refer to [Part 10](#).

Earthquake early warning systems, under all programs, are exempt from the requirement to demonstrate cost effectiveness.

If warning system projects do not fall under one of the aforementioned scenarios, the applicant or subapplicant may perform a benefit-cost analysis using the BCA Toolkit.

Information needed for performing the BCA for warning system projects will vary by the type of system. The following are typically key inputs in the BCA for purposes of warning system projects:

- **Project useful life:** While the useful life of a warning siren will vary, in general, the useful life of a warning system such as a tornado siren will range from 20 to 30 years. The useful life may be altered based on manufacturer warranty or other documentation that can demonstrate that the warning system may be able to provide service for longer than that time frame.
- **Population Impacted:** The BCA Toolkit requires information regarding the population served by the warning system. For example, if warning system is to be installed, the BCA Toolkit user must input how many community members will be reached by the warning system.
- **Project costs:** The cost of a warning system varies by type, robustness, technical innovation, installation and purpose. The warning system's size, extent and specifications must be reasonable, appropriate and necessary to reach the intended population and reduce loss of life. The subapplicant should (1) provide the exact costs for the warning system, installation and individual components and (2) include the costs in the BCA.
- **Recurrence intervals:** Recurrence information used in the analysis may vary by location or by the hazard that is anticipated to be or is the cause of a warning siren or system deployment, such as a tornado or earthquake.

L.1.3. Environmental and Historic Preservation

All subapplications submitted to FEMA must meet the EHP criteria in [Part 4](#). All subapplications must provide the information described in [Part 6](#) so that FEMA may perform the EHP review.

L.2. Warning Systems: Application and Submission Information

All subapplications submitted to FEMA must meet the eligibility criteria in [Part 4](#). All subapplications must have a scoping narrative in accordance with [Part 6](#). Project-specific criteria are highlighted below. Project-specific criteria for warning systems are highlighted below.

FEMA may request additional information after the subapplication has been submitted to ensure all necessary information is received. All information required by the regulations and the HMA Guide must be received before an assistance decision and an award or final approval can be made.

Subapplicants may apply for subrecipient management costs to cover administrative costs. Management costs must be included in the subapplication budget as a separate line item. More information about the requirements for management costs requests can be found in [Part 13](#).

If there are existing warning system networks, subapplications will need to clearly demonstrate how the proposed activities will integrate into those networks to build warning capability and reduce risk. Applicants are encouraged to consult with their FEMA region to determine the appropriate level of data needed to submit a subapplication for warning systems.

L.3. Warning Systems: Subaward Implementation

Post-award monitoring helps ensure subrecipients are achieving the objectives of the federal award consistent with the performance goals and milestones described in the subaward. To assist the recipient in monitoring warning system projects, the following milestone information or events should be included in Quarterly Progress Reports:

- If the subrecipient is acquiring contract support, the subrecipient should report when the request for proposal is completed, when the contract is out for bid, when the bid period closes, when proposals are reviewed, when the contractor is selected and the date of the kickoff meeting.
- Describe the current status including a summary of:
 - Recent progress and planned work.
 - Risks identified or changes from the milestones/deliverables submitted with the scope of work (e.g., financial concerns, coordination issues with state or local governments and utilities, project management or contracting issues, legal disputes, and significant changes impacting construction activities or timelines such as delays due to weather, materials, procurement or labor issues).
- When construction has started, is substantially complete or completed.

- Any other milestones that have been identified in the subapplication or agreed to or are required by the recipient.

L.3.1. Budget and Scope of Work Change

Recipients are required to report deviations from budget, project scope or objectives in accordance with [Part 8](#). Recipients must request prior written approvals from FEMA for certain budget and program plan revisions.⁴⁶²

If the final design is not complete prior to award, once the project is awarded, the design must be finalized by a licensed design professional. Any changes to the scope of work or budget because of completing the final design or to address permitting requirements must be consistent with [Part 8](#). Construction design activities are defined as construction activities for budgeting and scope of work purposes.

L.4. Warning Systems: Closeout

Recipients and subrecipients must closeout projects in a timely manner consistent with [Part 9](#).

HMA Grant Closeout Field Guides and Closeout Checklists can be found on FEMA's "[HMA Monitoring and Closeout Guidance](#)" webpage.

L.5. Warning Systems: Resources



Warning Systems Resources

- FEMA BCA: <https://www.fema.gov/grants/guidance-tools/benefit-cost-analysis>
- FEMA EHP review job aids: <https://www.fema.gov/grants/guidance-tools/environmental-historic/preparation-resources>
- Revised technical implementation plan for the ShakeAlert system: <https://pubs.er.usgs.gov/publication/ofr20181155>
- National Integrated Drought Information System and the U.S. Drought Portal: <http://www.drought.gov>
- National Weather Service Drought Monitoring: <https://www.weather.gov/ilm/drought>
- Advanced National Seismic System Policy and Procedures Documents: <https://www.usgs.gov/natural-hazards/earthquake-hazards/anss-advanced-national-seismic-system>

⁴⁶² [2 CFR § 200.308](#)

M. Aquifer Recharge, Storage and Recovery

Aquifer recharge, storage and recovery projects primarily serve as a drought mitigation technique but can be used to reduce flood risk, mitigate saltwater intrusion, and restore over drafted aquifers.

M.1. Aquifer Recharge, Storage and Recovery: Overview

Aquifer recharge, storage and recovery projects are designed to lessen the impacts of drought to the water supply. Aquifer recharge, storage and recovery projects include increasing surface water infiltration into an aquifer to be stored for a period until it is needed and then recovered for use. This can be done through direct well injection, infiltration pits and basins, or surface spreading.

The concept of aquifer recharge, storage and recovery is to:

- Capture water when there is an abundant supply such as during a rainy season or during spring snow melts.
- Store the water in subsurface aquifers.
- Recover the water when needed. Storing water underground can help protect it from pollutants, evaporation and weather events as well as maintain stream flow during periods of low flow.

There are two types of aquifers, confined and unconfined:

- A **confined aquifer** is a closed system that, for these projects, can only be recharged using an injection well. The project design includes a “mixing zone,” which is created between the injected water and native groundwater to ensure variations in water quality are managed safely and effectively.
- An **unconfined aquifer** can be recharged either by using an injection well or by allowing surface water to infiltrate and seep into the aquifer. Through infiltration, the surface water helps replenish groundwater supplies; the surface water mixes with native groundwater and slowly flows through the aquifer. The appropriate method of recharge, source and treatment of water added to the aquifer is based on specific site conditions and may include drinking water, raw and/or partially treated surface water and, infrequently, raw groundwater or reclaimed water. Communities can recover the stored water from the aquifer by using a well and use the water as a fresh water supply.

As a drought mitigation technique, aquifer recharge, storage and recovery projects offer advantages over other project types:

- Because aquifer recharge, storage and recovery is a subsurface storage technology, it is more resilient and protected than the alternative and more traditional storage technologies such as reservoirs or surface impoundments.

- The stored water in an aquifer recharge, storage and recovery system is protected from evaporation and extreme weather events.
- Unlike reservoirs or other surface storage, there is no potential for levee failure and downstream flooding.
- Aquifer recharge, storage and recovery can also protect freshwater supplies along coastal areas as a barrier or protection for saltwater intrusion driven by sea level rise.

M.2. Aquifer Recharge, Storage and Recovery: Eligibility

The following sections highlight eligible activities and costs for aquifer recharge, storage and recovery projects. Aquifer recharge, storage and recovery projects are eligible for assistance under HMGP, HMGP Post Fire, BRIC and FMA. To be eligible under FMA, an aquifer recharge, storage and recovery project must provide flood mitigation benefits to NFIP participating communities and demonstrate the elimination of future claims against the NFIP.

M.2.1. Eligible Activities

Eligible aquifer recharge, storage and recovery activities may include:

- Data analyses/investigations directly related to the hazard mitigation project (including groundwater and geotechnical investigations, water supply modeling, engineering reports, hydrogeological data collection and hydraulic analyses).
- Permitting costs and activities.
- Costs related to complying with local utility requirements.
- Site preparation, materials and construction.
- Professional services necessary to design, manage and implement the project.
- Project planning and design activities, including construction verification.
- Measures to avoid or treat adverse effects to historical properties and cultural resources.
- Drilling.
- Piping, injection wells, and extraction wells and associated equipment.
- Intake structures and associated piping/equipment.
- Pump stations.
- Infiltration basins.

- Monitoring wells.
- Water quality testing during system setup.
- Water treatment systems for injection and/or potable water supply.

M.2.2. Ineligible Activities

Aquifer recharge, storage and recovery projects that address, without an increase in the level of protection, the operation, deferred or future maintenance, rehabilitation, restoration, repair or replacement of existing structures, facilities or infrastructure or that do not address drought and increased water supply to the community are not eligible.

In addition, ineligible costs associated with aquifer recharge, storage and recovery projects include, but are not limited to, general geotechnical or hydraulic studies that are not specifically related to the project site of the proposed hazard mitigation activity. However, engineering costs associated with the design (hydrologic and hydraulic calculations) and benefit cost are acceptable.

A general list of ineligible activities is included in [Part 4](#).

M.2.3. Cost Effectiveness

Applicants and subapplicants must demonstrate that hazard mitigation projects are cost-effective. Projects must be consistent with [Part 5](#).

The cost-effectiveness requirements may be supplemented by the White House Council on Environmental Quality's [Principles, Requirements and Guidelines for Water and Land Related Resources Implementation Studies](#) criteria if applicable. Water resources projects may include aquifer recharge, storage and recovery and storage, flood diversion and storage, and floodplain and stream restoration.

The primary benefit of an aquifer recharge, storage and recovery project is to enhance or increase water supply for drought mitigation by storing excess seasonal flood flows. The stored water can be pumped out of the aquifer (recovered), treated and used as a freshwater supply when additional water supply is needed, such as during periods of drought. To be used as a benefit for the FEMA BCA Toolkit, this water must be used primarily for services to the community, as the primary purpose of FEMA's hazard mitigation programs is to protect life, buildings and infrastructure.

Communities may use aquifers for annual water resource management or longer-term water supply for more extreme needs. For example, they can recover only a portion of the stored water for use during high-demand times or seasonal dry periods and preserve a significant quantity of water in the aquifer for use during a drought. Aquifer recharge, storage and recovery systems can take advantage of the flexibility of using multiple types of source water and be designed and operated to help mitigate the effects of increased demand and drought in various communities with differing water resources.

At a minimum, the project application must identify the increased water supply capacity the aquifer recharge, storage and recovery project would provide in relation to the population that will be supported in a drought and during the project's useful life. A recurrence interval for drought periods must be identified to use the BCA Toolkit.

Estimating the probability of a drought can be difficult because of historical data gaps and variance in annual weather patterns/precipitation. Both the public and private sector have available modeling information that may help inform recurrence intervals for drought. There is not currently a single methodology to establish a recurrence interval for drought, but FEMA encourages communities to use the best available data to document a recurrence interval based on historic trends.

An aquifer recharge, storage and recovery project may be designed in a way that also provides flood risk reduction. If a flood mitigation component can be demonstrated, the methodologies in the current BCA Toolkit can be used to evaluate the cost effectiveness of the overall project. An aquifer recharge, storage and recovery project may provide additional benefits if the applicant can demonstrate a reduction in subsidence and reduce structural damage to homes and properties in the vicinity.

M.2.4. Feasibility and Effectiveness

Projects must be consistent with [Part 3](#). Hazard mitigation projects assisted by HMA must be both feasible and effective at mitigating the risks of the hazard(s) for which the project was designed. A project's feasibility is demonstrated through conformance with accepted engineering practices, established codes, standards, modeling techniques and best practices.

Some water use projects are subject to water rights laws, which vary by jurisdiction. In the western U.S., the process of obtaining water rights may take several years. Where possible, water rights should be obtained prior to application submission to prevent delays.

Additionally, state or local water use permits may be applicable. Any permits governing the ability to withdraw source water or abstract and use groundwater, including recharged groundwater, must be considered in the planning process for all aquifer recharge, storage and recovery projects.

M.2.4.1. Appropriate Site Selection

Appropriate site selection and an aquifer's availability to a community are key items to evaluate when considering an aquifer recharge, storage and recovery project for flood risk reduction and/or drought mitigation. Appropriate siting of the project and the specific site conditions will impact the project design, source of water for recharge, method of injecting or infiltrating the water, and efficiencies in recovering the water. Advances in hydrogeologic assessment techniques have made it easier to ensure proper selection of the project site and water storage zones in the aquifer.

M.2.4.2. Contaminants to the Underground Water Supply

During the project identification and planning phase potential contaminants to the underground water supply must be identified. The subapplicant should have a plan for managing potential leaching or contamination. The project application must address all potential impacts to environmental resources, including water quality, and provide the information necessary for FEMA to ensure compliance with environmental requirements. FEMA recommends that subapplicants consult federal, state and local regulatory agencies, as applicable, that provide permits and authorizations for aquifer recharge, storage and recovery projects to ensure all requirements will be met for a project. Subapplicants should also consult technical experts when developing an aquifer recharge, storage and recovery project to ensure the project is in an appropriate site and necessary methods and measures are in place to preserve water quality standards.

M.2.5. Environmental and Historic Preservation

All subapplications submitted to FEMA must meet the EHP criteria in [Part 4](#). All subapplications must provide the information described in [Part 6](#) so that FEMA may perform the EHP review. FEMA, in consultation with appropriate federal and state agencies, will use the information provided in the application to ensure compliance with EHP requirements. This may include demonstrating methods to incorporate public participation in the review process and/or mitigate any EHP impacts resulting from the hazard mitigation action.

Project applications must include the necessary data and information for FEMA to conduct the appropriate EHP review. Because of the underground storage nature of aquifer recharge, storage and recovery projects, the project application should address issues and methods to monitor and protect the stored water from potential contaminants. Additional permits, such as a National Pollution Discharge Elimination System permit (under the Clean Water Act), or state and/or local permits or approvals, may be applicable to aquifer recharge, storage and recovery projects. States may also have groundwater standards that may be incorporated in permits and authorizations that should be addressed.

Issues and methods should include consideration of the impacts, if any, of injected water on native water quality and potential sources of contamination from the injected water or leaching from the aquifer walls into the underground water supply. FEMA, in consultation with appropriate federal and state agencies, uses the information provided in the application to ensure compliance with EHP requirements. Aquifer recharge, storage and recovery projects also must comply with EPA's Underground Injection Control program (under the Safe Drinking Water Act), which regulates injection well operations to prevent the contamination of underground sources of drinking water. Therefore, FEMA determines whether all the requirements of the Underground Injection Control program are satisfied when considering aquifer recharge, storage and recovery projects for HMA.

In some cases, the Environmental Protection Agency Underground Injection Control program has been delegated to states, territories and tribes for implementation or local governmental authority may have additional requirements. Applicants must verify that the requirements of the agency with jurisdiction over the aquifer recharge, storage and recovery project, if any, are met.

M.2.6. Aquifer Recharge, Storage and Recovery: Application and Submission Information

All subapplications submitted to FEMA must meet the eligibility criteria in [Part 4](#). All subapplications must have a scoping narrative in accordance with [Part 6](#). Project-specific criteria are highlighted below.

FEMA may request additional information after the subapplication has been submitted to ensure all necessary information is received. However, all information required by the regulations and the HMA Guide must be received before an assistance decision and award or final approval can be made. For aquifer recharge, storage and recovery projects, the subapplication must include the following:

- Site map(s) and location information including the water sources within the service area and the population that will be impacted.
- Site photographs of the proposed project area.
- Narrative of the drought risk being mitigated, including drought history and projected trends in the service area, if available.
- Description of the existing conditions of the project area, such as the existing infrastructure and existing condition of the aquifer.
- Description of how the project will reduce drought impacts and specify the increased water supply the project will provide.
- Description of the population that will benefit from the project.
- Description of the water source(s) for the project.
- Description of all local, state and federal permitting requirements.
- Documentation to demonstrate that the subapplicant has obtained all necessary water rights for the project, if applicable.
- Documentation of at least two alternatives that were considered as part of the planning process. One alternative may be a “no action alternative” that would reflect the impacts if no action were taken. Describe why the selected project was the most practical, effective and environmentally sound alternative.
- Description of proposed activity, including timelines, deliverables and tasks required to complete the proposed activity.
- Documentation that the project can independently solve the problem and is a functional portion of a solution. Projects that are dependent on a contingent action to be effective or feasible are not eligible.

- Description of the project components (e.g., materials, structural design, maintenance, and how the project will fit in with surrounding systems).
- Description of construction activities (e.g., site access, storage and security; site preparation; temporary construction; earthwork, including importation of fill or disposal of fill; installation of conveyance features; installation of injection well; and repairs to infrastructure that might be damaged during construction, such as temporary or permanent relocation of utilities).

In addition to the items identified in [Part 6](#), the following technical data is required:

- Design plans, specifications and engineering analysis (such as design calculations and minimum level of protection provided by the project).
- Hydrologic, geologic and hydrogeologic information (e.g., hydrologic and hydraulic models, aquifer types, aquifer and vadose zone characteristics, subsurface homogeneity/heterogeneity, hydrologic conductivity, transmission rates, storage coefficients and water temperatures).
- System water balance, demand studies and safe yield calculations.

Because of the technical and complex nature of some aquifer recharge, storage and recovery projects, FEMA may request additional information to determine/demonstrate technical feasibility and cost effectiveness and to complete required EHP reviews.

M.2.7. Budget

All subapplications must include a line-item breakdown of all anticipated costs.

Subapplicants may apply for subrecipient management costs to cover administrative costs. Management costs must be included in the subapplication budget as a separate line item. More information about the requirements for management costs requests can be found in [Part 13](#).

M.2.8. Schedule

A detailed schedule must be provided for all tasks identified in the project cost estimate and scope of work. The schedule must identify major milestones, with start and end dates for each activity. Project schedules must show completion of all activities including the construction period within the period of performance. Sufficient detail must be provided to document that the project can be completed within the period of performance.

M.2.9. Costs

Typical costs for an aquifer recharge, storage and recovery project may include but are not limited to:

- Engineering and design services and cost estimate preparation.

- Data analysis/investigations directly related to the hazard mitigation project, including geotechnical investigations, engineering reports, and hydrologic and hydraulic analyses.
- Construction management.
- Surveying and inspection.
- Water quality sampling.
- Permitting and/or legal fees.
- All construction activities and materials required for project completion.
- Disconnecting and reconnecting utilities and extending lines and pipes as necessary.
- Complying with local utility requirements.
- Debris disposal and erosion control.
- Costs for repair of lawns, landscaping, sidewalks or driveways, if damaged by the project.

M.3. Aquifer Recharge, Storage and Recovery: Subaward Implementation

The following are the basic steps in implementing an approved HMA aquifer recharge, storage and recovery project:

1. Pre-construction (acquire land, if applicable; carry out design process; seek technical consultant; prepare cost estimate; obtain construction permits; hire construction manager/contractor).
2. Clear/prepare site and install erosion control measures to prepare for construction activities.
3. Complete excavation, drilling, foundation work and grading.
4. Construct project.
5. Relocate/restore utility lines.
6. Complete inspections.

Post-award monitoring helps ensure subrecipients are achieving the objectives of the federal award consistent with the performance goals and milestones described in the subaward. To assist the recipient in monitoring aquifer recharge, storage and recovery projects, the following milestone information or events should be included in Quarterly Progress Reports:

- If the subrecipient is acquiring contract support, the subrecipient should report when the request for proposal is completed, when the contract is out for bid, when the bid period closes, when proposals are reviewed, when the contractor is selected, and the date of the kickoff meeting.
- Describe the current status including a summary of:

- Recent progress and planned work.
- Risks identified or changes from the milestones/deliverables submitted with the scope of work (e.g., financial concerns, coordination issues with state or local governments and utilities, project management or contracting issues, legal disputes, and significant changes impacting construction activities or timelines such as delays due to weather, materials, procurement or labor issues).
- When construction has started, is substantially complete or completed.
- If property is purchased, the report should provide property address, purchase price and date.
- Any other milestones that have been identified in the subapplication, agreed to or are required by the recipient.

M.3.1. Budget and Scope of Work Change

Recipients are required to report deviations from budget, project scope or objectives in accordance with [Part 8](#). Recipients must request prior written approvals from FEMA for certain budget and program plan revisions.⁴⁶³

If the final design is not complete prior to award, once the project is awarded, the design must be finalized by a licensed design professional. Any changes to the scope of work or budget because of completing the final design or to address permitting requirements must be consistent with [Part 8](#). Construction design activities are defined as construction activities for budgeting and scope of work purposes.

M.4. Aquifer Recharge, Storage and Recovery: Closeout

Recipients and subrecipients must closeout projects in a timely manner consistent with [Part 9](#).

Upon completing an aquifer recharge, storage and recovery project, the authority having jurisdiction over the project must submit to the recipient a final verification assurance that the HMA aquifer recharge, storage and recovery project was constructed as designed and in accordance with the approved scope of work. This documentation is included as project closeout documentation and must confirm that the aquifer recharge, storage and recovery project provides the designed level of protection.

Closeout of aquifer recharge, storage and recovery projects includes the submittal of an operations and maintenance plan to FEMA for review prior to subaward closeout. In the plan, the recipient must confirm the plan is consistent with the HMA Guide, meets or exceed local codes, and is in

⁴⁶³ [2 CFR § 200.308](#)

conformance with appropriate permits. At a minimum, the operations and maintenance plan must include the following information:

- Information demonstrating the completed project will be maintained to achieve the proposed hazard mitigation.
- A description of the post-closeout maintenance activities that will be completed to maintain the project area.
- The period of time the community is committing to maintaining the area and/or project site, which must be consistent with the project useful life in the BCA.
- The department and job position that will be responsible for the project after construction has ended. Estimated costs for annual maintenance of the project.
- The schedule for completion of the maintenance activities.

HMA Grant Closeout Field Guides and Closeout Checklists can be found on FEMA's "[HMA Monitoring and Closeout Guidance](#)" webpage.

M.5. Aquifer Recharge, Storage and Recovery: Resources



Aquifer Recharge, Storage and Recovery Resources

- FEMA BCA: <https://www.fema.gov/grants/guidance-tools/benefit-cost-analysis>
- FEMA EHP review job aids: <https://www.fema.gov/grants/guidance-tools/environmental-historic/preparation-resources>
- The National Integrated Drought Information System U.S. Drought Portal: <http://www.drought.gov/drought>
- The U.S. Drought Monitor: <http://droughtmonitor.unl.edu/>
- National Integrated Drought Information System and the U.S. Drought Portal: <http://www.drought.gov>
- The U.S. Drought Monitor: <http://droughtmonitor.unl.edu>
- Policy Clarification: *BCA Tools for Drought, Ecosystem Services, and Post-Wildfire Mitigation for HMA*: [https://www.fema.gov/media-library-data/1464899521902-b2d31bbf89cc089c3cd43851a33d4aee/PolicyClarification_BCA\(Drought-EcosystemServices-Wildfire\)_508.pdf](https://www.fema.gov/media-library-data/1464899521902-b2d31bbf89cc089c3cd43851a33d4aee/PolicyClarification_BCA(Drought-EcosystemServices-Wildfire)_508.pdf)

N. Other Innovative Solutions

FEMA may provide assistance for other innovative solutions not specifically outlined in the HMA Guide under HMGP, HMGP Post Fire, BRIC and FMA. These proposed activities will be evaluated on their own merit against program requirements that generally include:

- Eligibility and completeness.
- Cost effectiveness.
- Technical feasibility and effectiveness.
- EHP program compliance.

Eligible projects will be approved on a case-by-case basis.

N.1. Other Innovative Solutions: Application and Submission Information

All subapplications submitted to FEMA must meet the eligibility criteria in [Part 4](#). All subapplications must have a scoping narrative in accordance with [Part 6](#).

FEMA may request additional information after the subapplication has been submitted to ensure all necessary information is received. However, all information required by the regulations and the HMA Guide must be received before an assistance decision and award or final approval can be made.

Part 13. Management Costs

FEMA provides assistance for management costs incurred in the administration of Hazard Mitigation Assistance (HMA) awards and subawards. Management costs are defined as any indirect cost, any direct administrative cost, and any other administrative expense associated with a specific project under a major disaster, emergency or disaster preparedness or hazard mitigation activity or measure.

A. Eligibility

Management costs are available under HMGP, HMGP Post Fire, BRIC and FMA.

For the Hazard Mitigation Grant Program (HMGP) and Hazard Mitigation Grant Program Post Fire (HMGP Post Fire), recipients will be reimbursed no more than 15% of the total amount of the award, of which not more than 10% may be used by the recipient and 5% by the subrecipient. Under HMGP and HMGP Post Fire, recipients' Administrative Plans must include procedures for monitoring and reporting on subrecipient management costs before receiving funding for management costs. For more information, refer to [Part 10](#).

For Building Resilient Infrastructure and Communities (BRIC) and Flood Mitigation Assistance (FMA), applicants may apply for a maximum of 10% of the total funds requested in their application cost estimate (federal and non-federal shares) for management costs to administer and manage award and subaward activities. Subapplicants for BRIC and FMA may apply for a maximum of 5% of the total funds requested in a subapplication for management costs. For more information, refer to [Part 10](#).

Additional management costs considerations may be found in the Notices of Funding Opportunity (NOFOs). If any requirements in the HMA Guide conflict with the NOFO, the requirements in the NOFO take precedence.

A.1. Eligible Activities

Administrative costs are expenses incurred by a recipient or a subrecipient in applying for, managing and administering the federal award to ensure federal, state or tribal requirements are met.

Management costs may include, but are not limited to:

- Recipient:
 - Delivery of technical assistance, including environmental and historic preservation and hazard mitigation planning activities.
 - Delivery of mitigation planning or hazard mitigation-related grants management training.

- Solicitation, development, review and processing of subapplications.
- Subapplication development and technical assistance to subapplicants regarding feasibility and effectiveness and benefit-cost analysis.
- Review and processing of mitigation plans for approval.
- Post-award real property monitoring and coordination of disposition requests, including open space compatibility verification.
- Program and grants management activities outlined in Program Administration by States agreement.
- Subrecipient:
 - Development and processing of subapplications.
- Both recipient and subrecipient:
 - Quarterly Progress Reports and financial reporting.
 - Project monitoring.
 - Technical monitoring (such as site visits and technical meetings).
 - Compliance activities associated with federal procurement requirements.
 - Documentation of quality of work verification for Quarterly Progress Reports and closeout.
 - Payment of claims.
 - Closeout review, reporting and liquidation.
 - Records retention.
 - Purchase or rental of equipment and per diem and travel expenses directly related to the implementation of HMA programs. These costs must support management costs activities.
 - Professional development of state, local or tribal government staff that is directly related to the implementation of HMA programs.
 - Personnel costs directly related to performing the activities listed above.
 - Indirect costs. Examples include:
 - Depreciation or use allowances on buildings and equipment.

- Costs of operating and maintaining facilities.
- General administration and general expenses.
- Personnel and accounting administration.

A.1.1. Personnel Time Eligible Under Management Costs

Personnel costs can be eligible for management costs if the employee or contractor is undertaking activities related to the receipt and administration of HMA programs.

There is no universal rule for classifying certain costs as either direct or indirect (facilities and administrative) under every accounting system. A cost may be direct with respect to some specific service or function, but indirect with respect to the federal award or other final cost objective. Therefore, it is essential that each item of cost incurred for the same purpose be treated consistently in like circumstances either as a direct or an indirect facilities and administrative cost to avoid possible double charging of federal awards.⁴⁶⁴

A.2. Ineligible Activities

Any activities directly related to a project are not eligible under management costs. For example, architectural, engineering and design services are project costs and cannot be included under management costs.

Construction management activities that manage, coordinate and supervise the construction process from project scoping to project completion are project costs. These activities cannot be included under management costs.

Indirect costs are only eligible as management costs and cannot be included as costs in the activity/project cost estimate.

B. Application and Submission Information

Management costs are not automatically provided or calculated and recipients/subrecipients must include management costs in their subapplications.

All recipients and subrecipients must apply for management costs before the HMGP or HMGP Post Fire application deadline. If a recipient or subrecipient does not apply for management costs by the application deadline, management costs will no longer be available for the remainder of the project.

⁴⁶⁴ [2 CFR § 200.412](#)

Recipients must submit a separate management costs subapplication within their award package. The subapplication for recipient management costs must be included in the overall award application or the request will not be considered.

Subapplicants may apply for management costs by including them in their subapplication budget as a separate line item.

A separate management costs narrative (activity description, schedule, cost estimate and budget narrative) must be provided in the electronic application system to apply for management costs.

The documentation must include:

- A description of activities, personnel requirements and other costs for which the recipient/subrecipient will use management costs assistance provided under this part.
- The recipient/subrecipient's plan for expending and monitoring the assistance provided under this part and ensuring sufficient assistance is budgeted for award and subaward closeout.

For BRIC and FMA, recipients may apply for management costs in accordance with the instructions and requirements of the NOFO.

For HMGP and HMGP Post Fire, subapplicants who are requesting management costs must apply through their recipient. All subapplications submitted to FEMA must meet the eligibility criteria in [Part 4](#). All subapplications must have a scoping narrative in accordance with [Part 6](#).

B.1. Declining Management Costs

Subrecipients are not required to apply for management costs. For HMGP and HMGP Post Fire, the recipient's hazard mitigation officer or designated representative should document procedures in the Administrative Plan to address a subrecipient's decision not to apply.

B.2. Activity and Schedule

For the applicant management costs subapplication, the scope of work narrative describes the activities and specific tasks related to the entire grant cycle, from soliciting and developing subapplications to closing out the subapplication/award and audits. The narrative describes personnel requirements for the proposed activities and indicates whether contract support or consultants will be used.

For subrecipient management costs, subapplicants must provide a budget narrative within their project budgets. The narrative must describe the activities, tasks and personnel being supported with management costs funding.

B.3. Allowable Costs

FEMA only reimburses for actual, allowable costs, and the recipient or subrecipient must properly document all charges.

B.3.1. Unallowable Costs

Subapplicants who are not awarded subawards for activities will not receive reimbursement for pre-award costs incurred in developing and submitting subapplications.

Salaries and other operational costs covered by other federal assistance such as Emergency Management Program Grants are not eligible.

B.4. Budget

All subapplications must include a line-item breakdown of all anticipated costs (cost estimate) and a budget narrative. A budget narrative must support the budget so FEMA can determine that costs are allocable, necessary and reasonable. The budget describes costs for which the recipient/subrecipient will use management costs assistance. The budget narrative provides information on how the assistance will be expended and monitored and shows that enough assistance will be available for closeout.

Typically, a budget for management costs will include the following cost categories, if applicable:

- **Personnel (labor) and fringe:** Provide the number of personnel, number of hours per quarter, average pay rate and fringe benefit rates.
- **Travel:** Provide a breakdown of travel costs: the type of transportation, lodging, mileage and per diem rates, and estimated description of travel needs. The budget narrative should describe the travel involved and its purpose and explain how the proposed travel is necessary for the project. If travel details are unknown, the basis for proposed costs should be explained. Lump sums will not be accepted.
- **Equipment:** Include a list of equipment and the intended use of the equipment. Provide a lease versus purchase analysis with each item with a value of more than \$5,000. Provide a copy of rental agreement(s) and pricing.⁴⁶⁵
- **Supplies/materials:** A unit cost estimate for each major component or element.
- **Contractual:** The estimate should be supported by a method of selection (competitive, sole source with justification, sealed bids, small purchase or micro-purchase), request for proposal/scope of work, period of performance, criteria for measuring accountability, bid

⁴⁶⁵ [2 CFR § 200.439](#)

documents or contract. If bids have not been received, the recipient/subrecipient may submit an independent cost estimate.

- **Other:** Include information in narrative on how costs were identified.
- **Pre-award:** To be eligible for assistance, all pre-award costs must be noted in a separate line item including the date the cost was incurred and a narrative description of the task completed.⁴⁶⁶
- **Indirect costs:** Indirect costs are only eligible as management costs.

B.5. HMGP and HMGP Post Fire Incremental Obligation

For HMGP and HMGP Post Fire, recipient and subrecipient management costs will be obligated in increments sufficient to cover needs for no more than one year unless contractual agreements require additional assistance.

The recipient and the subrecipient must review their management costs schedule, budget and narrative to determine when the assistance will be needed. The recipient and subrecipient must develop their management costs financial plan by budget (or fiscal) year and include a roll-up of all budget years projected to submit to FEMA for review and approval. This requirement ensures the recipient and subrecipients adequately plan for expending management costs through the lifecycle of the award and ensures there is enough assistance through closeout.

After the recipient has reviewed current progress and determined that the next increment of assistance is needed, the recipient must request assistance from FEMA using the budget amendment procedures. FEMA reviews the recipient's request, and if the recipient/subrecipient is ready to expend additional assistance, FEMA will obligate the next increment of assistance. This incremental change is generally done on an annual basis, although exceptions can be made when justified.

B.5.1. Recipient Management Costs Subawards

FEMA may advance management costs to recipients in the first year, prior to establishing the HMGP ceiling amount or HMGP Post Fire available assistance amount. Refer to [Part 10](#) for more information about applying for management cost funds based on the 30-day and six-month estimates. Regardless of when subawards are obligated, if the total amount of the award is adjusted for any reason, FEMA will de-obligate management costs that exceed the 15% cap (10% for the recipient and 5% for the subrecipient) based on updated calculations.

A recipient management costs subaward is treated the same as any of the subaward types for subrecipients; therefore, if the federal share of the recipient management costs subaward is \$1 million or greater, the recipient must review the subaward to determine whether it is a candidate for

⁴⁶⁶ [2 CFR § 200.458](#)

strategic funds management. The recipient must have documented procedures in the state administrative plan for monitoring and reporting on subrecipient management costs before receiving funding for management costs. Subrecipient management costs are reviewed along with the project. More information on strategic funds management can be found in [Part 8.D.1](#).

Recipient management costs subawards with a federal share under \$500,000 can be fully obligated at the time of the award except for closeout withholding.

B.5.2. Subrecipient Management Costs

Subrecipient management costs will be approved when the subaward is awarded. Subrecipients will only receive management costs in conjunction with a subaward.

Strategic funds management may be applied to the subrecipient subaward when the overall federal share \$1 million or greater, as described in Part 8. Subrecipient management costs associated with the subaward are not required to be factored into the project's strategic funds management schedule and will be obligated in increments of no more than one year unless contractual agreements require additional funding.

Management costs associated with a subrecipient subaward with a federal share under \$500,000 (maximum available management costs of \$25,000) can be fully obligated by FEMA at the time of the award.

B.6. Subaward Implementation

Quarterly financial reporting is required for recipient and subrecipient management costs. Quarterly financial reporting and data analysis is the process of receiving and analyzing financial information reported by the recipient and subrecipient to gauge progress and compliance with award requirements and to gain reasonable assurance that assistance does not exceed the allowable or approved amounts. FEMA analyzes the data for the recipient. The recipient analyzes data for the subrecipient.

B.6.1. Budget and Scope of Work Change

Additional management costs cannot be applied for after the application deadline. If management costs are approved prior to the end of the application period, they can be amended as needed, using the budget and scope of work change procedures in [Part 8](#).

Recipients are required to report deviations from budget, project scope or objectives in accordance with [Part 8](#). Recipients must request prior written approvals from FEMA for certain budget and program plan revisions.⁴⁶⁷

⁴⁶⁷ [2 CFR § 200.308](#)

Prior approval from FEMA is needed to amend a subaward and move project costs to management costs if management costs were obligated prior to the application deadline. A recipient/subrecipient may request a budget change if it is consistent with the program guidelines and regulations. If the subrecipient reduces or moves funds from a project budget to a management costs budget, the amount of assistance available for management costs will also be reduced. The subrecipient cannot request more than 5% of the total amount of the subaward.

B.7. Closeout

FEMA will adjust recipient management costs awards to ensure that the amount available for management costs does not exceed the percentage permitted by each program. If the total amount of the grant award is adjusted for any reason, FEMA will de-obligate management costs that exceed allowed amounts. FEMA will adjust subrecipient management cost awards to ensure that available amounts do not exceed the percentage permitted for each program, including approved budget changes or underruns at closeout.

For HMGP, recipient management costs are available for actual documented expenses up to 10% of the total amount of the grant award. The total amount of the grant award means the total amount of contributions based on subapplications submitted when the HMGP application period closes or when the total HMGP ceiling is determined, whichever is later. For HMGP, subrecipients may claim actual documented management costs up to 5% of the actual subaward, inclusive of budget changes.

B.7.1. Closeout Withholding

For HMGP and HMGP Post Fire, FEMA will withhold 3% of the recipient management costs award until closeout to ensure timely management costs closeout. For recipients with an enhanced mitigation plan and who also have a Program Administration by States designation, FEMA will reduce the withholding to 2% of the recipient management costs award. FEMA will provide the withheld assistance after the recipient closes the last non-management costs subaward. The withholding does not apply to the subrecipient's management costs award, only the recipient's award.

B.7.2. Availability of Management Costs

For HMGP and HMGP Post Fire, the subrecipient can claim management costs incurred until the due date of the subaward final reports. For HMGP and HMGP Post Fire, the recipient can claim management costs incurred until the due date of the award final reports. Refer to the relevant fiscal year's NOFO for information regarding the availability of management costs for BRIC and FMA.

The recipient may submit an extension request if additional time is needed to complete management costs activities. The recipient must provide a request that includes the following information:

- Description of management costs work performed by recipient personnel and or contract support.

- A cost estimate for the remaining time until the due date of the recipient final reports. The cost estimate must identify costs by budget year (recipient fiscal year or federal fiscal year). The cost estimate must also describe personnel costs by position and number of labor hours anticipated for the activity or general category of activities. The cost categories to include are:
 - Salaries (with overtime).
 - Fringe benefits.
 - Operating expenses.
 - Contracts.
 - One-time expenditures.
 - Equipment.
 - Vehicles.
 - Equipment purchased/leased and the anticipated disposal method.
- A scope of work and project schedule for the remaining time until the due date of the recipient final reports that includes a staffing organizational chart identifying the responsibilities of each position.
- A copy of scope of work for any contracts used to support recipient management costs activities.
- A copy of the Administrative Plan. The plan must be updated to include Quarterly Progress Reports procedures so FEMA can adequately measure progress and the plan of action for closing the award and metrics for the number of projects to be closed per year.
- Accurate current quarterly financial and progress reports.

FEMA analyzes if costs have been incurred outside of the due date of the final reports and if the Quarterly Progress Report is accurate at the time of the extension request. FEMA may deny an extension request if payments have been made outside of the allowed timeframes or if the quarterly financial and progress reports are not accurate.

Part 14. Program Administration by States

Section 404(c) of the [Robert T. Stafford Disaster Relief and Emergency Assistance Act](#) (Stafford Act) authorized FEMA to implement the Program Administration by States (PAS) as a pilot program before developing a rule permanently implementing PAS.⁴⁶⁸

Under the PAS Pilot, FEMA may delegate defined program responsibilities to recipients based on an analysis of recipients' staffing plan, grants management experience, hazard mitigation experience and demonstrated past performance.⁴⁶⁹ For example, generally, FEMA reviews and approves all HMGP subapplications and hazard mitigation plans. Under the PAS Pilot, FEMA may grant the recipient authority to conduct agreed upon reviews and grant approvals with limited FEMA oversight. Additionally, under the PAS Pilot, the recipient can have increased control of approval of scope of work changes, cost overruns and underruns, reimbursement claims to subrecipient communities, and approval of local mitigation plans. While FEMA has a reduced role under PAS, it maintains oversight responsibilities. The PAS Pilot is intended to facilitate and accelerate the review and approval process of various elements in managing the program.

Participation in PAS is optional. The optional PAS Pilot applies to HMGP for eligible activities immediately following any major disaster declaration on or after Jan. 29, 2013.

Federally recognized tribes that choose to be a recipient may request PAS delegations. In this part, unless otherwise indicated, the term recipient will refer to states, federally recognized tribes and territories that receive HMGP and HMGP Post Fire assistance directly from FEMA.

A. State, Tribal or Territorial PAS Request

A recipient wishing to participate in PAS must submit a written request to FEMA indicating their desire to implement PAS. As part of the written request for PAS, the recipient may elect to assume primary responsibility for some or all elements of HMGP and HMGP Post Fire or can request grant administration delegations from FEMA.

The responsibilities that FEMA may delegate include but are not limited to reviewing the project and planning applications, completing Benefit-Cost Analyses (BCAs) for projects, approving scope of work modifications and moving assistance between applicable projects. Recipients can also approve local mitigation plans under PAS. FEMA staff will assess the recipient's request against the criteria provided in [Part 14](#), Section X. PAS Delegated Activity Categories.

⁴⁶⁸ [42 United States Code \(U.S.C.\) § 5170c\(c\)](#)

⁴⁶⁹ [42 U.S.C. § 5170c\(c\)\(2\)](#)

A.1. PAS: Disaster Delegation

Recipients can request PAS at any time, including before submitting applications, during the application period and even post-award for a declaration.

Recipients who are interested in the delegation of grants management activities should contact their regional Hazard Mitigation Assistance (HMA) representative prior to submitting a request letter to the FEMA regional office.

A.2. PAS: Non-Disaster Delegation of Local Mitigation Plan Approval

A state without disaster declarations can request that FEMA delegates the review of local hazard mitigation plans to the recipient.⁴⁷⁰ Because federally recognized tribes do not review local mitigation plans, they cannot request that FEMA delegates to them the review of local mitigation plan approval.

B. PAS Criteria

To establish eligibility for administering PAS, the requesting recipient must have:⁴⁷¹

- A current FEMA-approved state or tribal (standard or enhanced) mitigation plan.
- Demonstrated past performance in the grant management area(s).
- Demonstrated commitment to hazard mitigation.

C. PAS FEMA Assessment

After discussing its interest in PAS with the FEMA regional office, the recipient must submit a request letter to its FEMA regional administrator. The request letter will indicate the activities the recipient is interested in managing and will contain the supporting documentation demonstrating the recipient can manage HMGP and HMGP Post Fire and the recipient's commitment to hazard mitigation.

Upon receipt of the recipient's PAS request letter and supporting documentation, the FEMA regional HMA program staff and mitigation planning program staff (if the recipient requests non-disaster delegation of local mitigation plan approval, when applicable) must review the request within 30 calendar days. FEMA will assess the recipient's request against the criteria provided in [Part 14.X](#).

If FEMA determines the recipient meets the criteria, the agency will contact the recipient to begin drafting an operational agreement. FEMA may request additional information or documentation from

⁴⁷⁰ [44 Code of Federal Regulations \(CFR\) § 201.3\(c\)\(6\)](#)

⁴⁷¹ Section 404(c) of the Stafford Act, [42 U.S.C. § 5170c\(c\)](#)

the recipient if the information is lacking. If the request is denied, FEMA will notify the recipient with a letter explaining why the request was denied and procedures for reconsideration.

D. PAS Operational Agreement

FEMA will develop an operational agreement (as part of the FEMA-State or FEMA-Tribal Agreement) with approved PAS recipients that outlines agreed-upon delegations. The operational agreement must outline applicability, FEMA and recipient responsibilities, and the process for suspending or terminating the program if FEMA determines the recipient is not administering HMGP or HMGP Post Fire or mitigation planning activities in a satisfactory manner.

D.1. PAS: Disaster Delegation

Because this is a pilot program, the operational agreements will be tied to HMGP and HMGP Post Fire awards except for the non-disaster delegation of local mitigation plan approval, to which FEMA and the recipient may agree without an HMGP or HMGP Post Fire award. Assigning PAS designations to HMGP and HMGP Post Fire awards will allow recipients to build capability over time. FEMA uses the PAS Pilot to consult with recipients to establish criteria for approval of an application to administer HMGP and HMGP Post Fire and develop program regulations to implement the PAS program.

Updated operational agreements will be developed for each declared disaster for which a recipient requests delegation of some HMGP and HMGP Post Fire administration elements. Recipients with multiple open disasters may have separate operational agreements for each disaster and may request different activities for each disaster. Operational agreements expire when the HMGP and HMGP Post Fire period of performance ends.

D.2. PAS: Non-Disaster Delegation of Local Mitigation Plan Approval

Assigning PAS designations outside of HMGP and HMGP Post Fire awards for local mitigation plan approval will encourage states to build capability and partnerships that will support risk reduction efforts by establishing priorities for implementing hazard mitigation strategies using a wide range of resources, including HMGP and HMGP Post Fire. It will also allow states that approve local mitigation plans under a disaster agreement to continue local mitigation plan approvals once the disaster agreement has ended.

Non-disaster agreements for approval of local mitigation plans are limited to five years. If a major disaster declaration is received, the state must transition into a disaster agreement. When a state is considering transitioning from a disaster to non-disaster or non-disaster to disaster agreement, FEMA may use the amendment process provided for in the agreement instead of requiring the state to submit a new or updated PAS request. The state's mitigation planning performance must be in good standing to transition to another type of agreement. If FEMA and the state cannot settle upon a transition between a non-disaster and disaster agreement within a reasonable time frame, FEMA will terminate the agreement.

E. PAS Update to HMGP and HMGP Post Fire Administrative Plan

If approved for the PAS Pilot under the disaster delegation, the recipient must update its HMGP or HMGP Post Fire Administrative Plan.⁴⁷² HMGP/HMGP Post Fire Administrative Plans must outline those components the recipient will administer under PAS, in accordance with the HMA Guide.

E.1. PAS: Disaster Delegation

The recipient must update its HMGP or HMGP Post Fire Administrative Plan by preparing a PAS addendum that provides a procedural guide that details how the recipient will administer delegated activities. FEMA must review and approve this plan.

E.2. PAS: Non-Disaster Delegation of Local Mitigation Plan Approval

The state should develop a management plan or procedural guide that details how the state will administer the delegated activity of local mitigation plan approval. FEMA must review and approve this management plan or procedural guide.

F. PAS Delegation Options

Recipients participating in the PAS Pilot may opt to do many of the same activities they currently perform. Final review and approval by FEMA will not be required in most cases.

F.1. PAS: Application Review

Recipients will review and approve HMGP and HMGP Post Fire subapplicant applications and pre-award amendment requests using FEMA's expedited application approval process for obligating assistance.

Recipients using the expedited application approval process must submit the complete subapplication and the following:

- Minimum Eligibility Criteria Checklist or equivalent documentation. Refer to [Part 15.E](#) and [Part 15.F](#).
- Management costs.
- A project summary consisting of the following:
 - Major disaster declaration number from which hazard mitigation funds will be obligated by FEMA.

⁴⁷² [44 CFR § 206.437](#)

- Project number (FEMA will provide to recipient).
- Subapplicant name(s) (i.e., community and point of contact information, National Flood Insurance Program status).
- Congressional District (senators and representatives).
- Federal Information Processing Standard code (FEMA will provide to recipient).
- Unique Entity Identifier local or tribal mitigation plan information.
- Brief description of the project.
- Project location with global positioning system coordinates and flood zone.
- Flood insurance policy information, if applicable.
- Total project cost.
- Amount requested (federal share).
- Non-federal cost share amount and source (e.g., local, global credit pool).
- Cost-effectiveness determination.
- Proposed performance period (completion date).
- List of alternatives considered (e.g., acquisition, elevation, drainage upgrade).
- Reviews/results.
- Certification that the recipient has reviewed and determined this project is eligible.
 - All documentation needed for the project environmental review and all coordinating agency consultation letters and memorandums.
 - Benefit-cost summary sheet.
 - Project site map, including FEMA flood map data.
 - Assurances.

Once FEMA receives these items, FEMA will begin the process to award assistance.

For the subapplications reviewed, recipients can approve the assistance of pre-award planning and project costs incurred by subrecipients.

F.2. PAS: Benefit-Cost Analysis

Recipients participating in PAS may review and approve a subrecipient's BCAs without FEMA review. Recipients prepare their own BCAs without FEMA review.

F.3. PAS: Grants Management

Recipients may approve post-award subrecipient scope of work modifications (that have no change to the project activity and no resulting need for additional federal assistance) after FEMA EHP regional clearance. If there are modifications to the scope of work, reference the procedures in [Part 8](#).

The recipient will submit a Minimum Eligibility Criteria Checklist or equivalent documentation and a project summary. Recipients may develop and use their own checklists if approved by FEMA. For hazard mitigation projects, refer to [Part 15.E](#), and for mitigation planning activities, refer to [Part 15.F](#). Recipients will update Quarterly Progress Reports accordingly.

Recipients will approve time limit extensions for subapplications with no impact to the recipient's HMGP or HMGP Post Fire award period of performance. Recipients will document these changes in Quarterly Progress Reports and electronic data systems.

Recipients will administer HMGP and HMGP Post Fire for specific project types submitted by the subrecipient, including property acquisition and structure demolition, wildfire mitigation, safe rooms, structural elevation or other eligible hazard mitigation project types.

F.4. PAS: Fiscal Management

Without prior approval from FEMA, recipients will approve post-award budget revisions using assistance available due to cost underruns from other approved subawards. This assistance can be moved to approved subawards with cost overruns. Assistance can only be used within the same HMGP or HMGP Post Fire award.

Prior to its approval, the recipient must determine if the project meets eligibility requirements, including cost effectiveness and cost share. The recipient will update project files with an updated eligibility checklist for project/planning subapplications or equivalent documentation. Recipients may develop and use their own checklists if approved by FEMA. The recipient will update and submit the project summary using electronic data systems provided by FEMA and will update Quarterly Progress Reports accordingly.

Recipients will determine the eligible amount of reimbursement for each subrecipient claim and process payment without FEMA's approval.

F.5. PAS: Mitigation Planning

States participating in PAS must approve local mitigation plans using the process described in the HMA Guide and coordinate with the appropriate FEMA regional mitigation planning lead monthly regarding FEMA’s updates to mitigation plan status database.

FEMA will continue to send final approval letters in accordance with the [Local Mitigation Planning Policy Guide](#) (released April 19, 2022; effective April 19, 2023).⁴⁷³ When tribes participate in multi-jurisdictional plans with local governments, FEMA will also review the plan for compliance with tribal mitigation plan requirements and the [Tribal Mitigation Plan Review Guide](#) (Dec. 2017) and send final approval letters to tribes.⁴⁷⁴

G. Environmental Review Under PAS

For purposes of the PAS Pilot, FEMA will not delegate the environmental and historic preservation (EHP) review of HMGP and HMGP Post Fire subapplicant applications and pre-award amendments and subrecipient post-award amendments to the recipients. The statutory provision for the PAS Pilot does not provide sufficient authority to delegate EHP review to recipients for compliance with HMGP and HMGP Post Fire eligibility and EHP requirements. FEMA has final review and approval authority on the EHP impact of any proposed federal action or undertaking. However, recipients may assist FEMA with EHP review preparation (refer to [Part 4.H](#)). Activities that assist FEMA with the preparation of the EHP review include completing project scoping, describing the proposed activity and providing background information for assessing the environmental impact of the federal action on historic properties, threatened and endangered species, critical habitats, wetlands, and floodplains. Recipients should work with their subapplicants/subrecipients to evaluate and document environmental and cultural resource information involved with the proposed HMGP and HMGP Post Fire projects to consider alternatives to avoid, minimize and/or mitigate potential adverse impacts to the human environment and to integrate sustainable practices as early as possible in project formulation.

Before approving any subapplicant applications, pre-award amendments or subrecipient post-award amendments, recipients must coordinate with FEMA regional EHP staff to receive EHP clearance for approving HMGP and HMGP Post Fire subapplications and pre-award amendments and post-award amendments. HMGP and HMGP Post Fire assistance cannot be obligated until FEMA has completed the EHP review process. The Minimum Eligibility Criteria Checklist or equivalent documentation and the project summary that recipients agree to submit will provide the FEMA regional EHP staff with the information needed to complete EHP review in most cases. Recipients will be required to submit to FEMA regional EHP staff any additional information or documentation needed for FEMA to complete the review. Recipients must coordinate with the subapplicant/subrecipient to obtain additional information.

⁴⁷³ The *Local Mitigation Plan Review Guide* (Oct. 1, 2011) is in effect until April 18, 2023.

⁴⁷⁴ [44 CFR § 201.7](#)

H. State Approval of Local Mitigation Plans Under PAS

Typically, a national panel comprised of FEMA headquarters and regional mitigation planning staff reviews the state’s initial request for delegation of local mitigation plan review approval.

After review of the request is completed and FEMA determines the state’s past performance is adequate, FEMA mitigation planners and the state will conduct a joint review of local mitigation plans. The intent is to ensure a common understanding of the process and that procedures related to local mitigation plan review and approval are completed in accordance with the *Local Mitigation Planning Policy Guide*.⁴⁷⁵ There are several sections of the Local Mitigation Plan Review Tool (Appendix A of the *Local Mitigation Planning Policy Guide*), such as the Plan Assessment, that are completed by FEMA and will have to be completed by the state.

The joint reviews are intended to provide technical assistance in completing these sections. The length of the joint review period will be negotiated between FEMA and the state. The joint reviews are intended for the first plans approved under the agreement or may involve reviewing past plans when new plan submissions are not available.

If states request delegation of local mitigation plan approvals, they are expected to complete the following activities:

- States will review and approve local mitigation plans within 45 calendar days of receipt, whenever possible.
- States will notify FEMA when a local mitigation plan is adopted and approved and provide the following items to FEMA:
 - Copy of the local mitigation plan.
 - Copy of the completed Local Mitigation Plan Review Tool.
 - Copies of the adoption resolutions or documentation.
 - State’s approval notification.
 - Local jurisdiction’s contact information.
- States will be required to send monthly updates to the FEMA regional mitigation planning office, describing plan approval status, the status of plan reviews, technical assistance activities and scheduled training. States will also update the Mitigation Planning Portal if delegated permission from the FEMA regional mitigation planning office.

⁴⁷⁵ The *Local Mitigation Planning Policy Guide* will be effective April 19, 2023, for all plan approvals. The *Local Mitigation Plan Review Guide* is in effect until April 18, 2023, for all plan approvals.

FEMA will continue to send final approval letters in accordance with the *Local Mitigation Planning Policy Guide*.

H.1. PAS: Disaster Delegation

States can request delegation of local mitigation plan approval under a HMGP or HMGP Post Fire award issued as part of a major disaster declaration.

H.2. PAS: Non-Disaster Delegation

States can request delegation of local mitigation plan approval when there is no open major disaster declaration.

I. PAS Performance Monitoring

FEMA will perform monitoring visits and provide tools and training as needed. FEMA's monitoring program will vary depending on the size and scope of the HMGP or HMGP Post Fire award and the activities delegated to the recipient. As stated in the agreement, FEMA staff will conduct an overall review to determine if processes agreed to in the agreement and Administrative Plans or management plans are being followed. Monitoring visits will occur at least once a year. After the monitoring visit is complete, FEMA will provide the recipient with a monitoring report and will work with the recipient to resolve any issues.

I.1. PAS: Disaster Delegation Grants Management Activities

Ongoing monitoring activities will be centered around the quarterly reporting periods. FEMA regional offices will evaluate the recipient's performance quarterly by reviewing award application data, quarterly or monthly reports, fiscal management processes, staffing allocations, key personnel changes and subaward procedures and processing. Annually, or as needed, FEMA will also conduct more in-depth monitoring activities either on-site or through desk reviews.

Monitoring visits will most likely coincide with grants management activity. For example, if FEMA has delegated the application review to the recipient, FEMA might conduct a review at the halfway point of the application period to ensure compliance. Review frequency can be addressed during the drafting of the agreement.

During a second-level review (desk review or site visit), FEMA will review project files for documentation compliance. For those recipients requesting delegation of fiscal activities, FEMA will review the recipient's audit report and use the fiscal testing system to follow up on concerns identified in the audit. As part of monitoring activities, FEMA regional staff may also interview recipient staff working on HMGP and HMGP Post Fire as part of the PAS Pilot (and subrecipients as needed) to learn how the program is being managed from their perspective.

Using FEMA's questions from a data collection plan for evaluation of the PAS Pilot, the agency will interview subrecipients to collect data to evaluate the effectiveness of the PAS Pilot.

I.2. PAS: Disaster and Non-Disaster Delegation of Local Mitigation Plan Approval

Ongoing monitoring activities will be centered on the monthly updates provided to the FEMA regional mitigation planner, who will evaluate the state’s performance by reviewing plan status data, technical assistance activities and any changes in key personnel.

If FEMA delegates the local mitigation plan approval to the recipient, FEMA regional mitigation planning staff will conduct monitoring activities and make determinations regarding compliance. FEMA will conduct at least one plan review audit per year.

J. Noncompliance Under PAS

Recipients will be expected to continue to maintain performance as agreed to in the agreement and Administrative Plan or the management plan for the non-disaster option for review of local mitigation plans. Recipients will maintain the performance levels under which they were evaluated for PAS status. If FEMA finds significant declines in performance, the agency will provide the recipient information regarding the consequences for noncompliance, including the circumstances in which PAS status can be revoked. For more information on noncompliance and actions to address deficiencies, refer to [Part 8](#).

K. Revocation of PAS Status

FEMA will discuss with the recipient any findings from monitoring that may require remediation. The recipient must provide a plan and timeline to address the findings within 30 calendar days of notice from the region. If the corrective measures are not implemented or cannot be implemented within a reasonable time frame, FEMA will notify the recipient of the options available, including possible revocation of the PAS status. For more information on noncompliance and actions to address deficiencies, refer to [Part 8](#).

L. Subapplicant or Subrecipient Appeal Under PAS

The HMGP and HMGP Post Fire appeal process will not change under PAS. FEMA will continue to review appeals from subapplicants and subrecipients regarding eligibility of activities or costs.⁴⁷⁶

M. Financial Statement Audits Under PAS

For purposes of the PAS Pilot, FEMA will not delegate the environmental and historic preservation (EHP) review of HMGP and HMGP Post Fire subapplicant applications and pre-award amendments and subrecipient post-award amendments to the recipients. The statutory provision for the PAS Pilot does not provide sufficient authority to delegate EHP review to recipients for compliance with HMGP

⁴⁷⁶ [44 CFR § 206.440](#)

and HMGP Post Fire eligibility and EHP requirements. FEMA has final review and approval authority on the EHP impact of any proposed federal action or undertaking. However, recipients may assist FEMA with EHP review preparation (see refer to [Part 4.H](#)). Activities that assist FEMA with the preparation of the EHP review include completing project scope, describing the proposed activity and providing background information for assessing the environmental impact of the federal action on historic properties, threatened and endangered species, critical habitats, wetlands and floodplains. Recipients should work with their subapplicants/subrecipients to evaluate and document environmental and cultural resource information involved with the proposed HMGP and HMGP Post Fire projects to consider alternatives to avoid, minimize and/or mitigate potential adverse impacts to the human environment and to integrate sustainable practices as early as possible in project formulation.

Before approving any subapplicant applications, pre-award amendments or subrecipient post-award amendments, recipients must coordinate with FEMA regional EHP staff to receive EHP clearance for approving HMGP and HMGP Post Fire subapplications and pre-award amendments and post-award amendments. HMGP and HMGP Post Fire assistance cannot be obligated until FEMA has completed the EHP review process. The Minimum Eligibility Criteria Checklist or equivalent documentation and the project summary that recipients agree to submit will provide the FEMA regional EHP staff with the information needed to complete EHP review in most cases. Recipients will be required to submit to FEMA regional EHP staff any additional information or documentation needed for FEMA to complete the review. Recipients must coordinate with the subapplicant/subrecipient to obtain additional information.

N. State Approval of Local Mitigation Plans Under PAS

Typically, a national panel comprised of FEMA headquarters and regional mitigation planning staff reviews the state's initial request for delegation of local mitigation plan review approval.

After review of the request is completed and FEMA determines the state's past performance is adequate, FEMA mitigation planners and the state will conduct a joint review of local mitigation plans. The intent is to ensure a common understanding of the process and that procedures related to local mitigation plan review and approval are completed in accordance with the *Local Mitigation Planning Policy Guide*.⁴⁷⁷ There are several sections of the Local Mitigation Plan Review Tool (Appendix A of the *Local Mitigation Planning Policy Guide*), such as the Plan Assessment, that are completed by FEMA and will have to be completed by the state.

The joint reviews are intended to provide technical assistance in completing these sections. The length of the joint review period will be negotiated between FEMA and the state. The joint reviews are intended for the first plans approved under the agreement or may involve reviewing past plans when new plan submissions are not available.

⁴⁷⁷ The *Local Mitigation Planning Policy Guide* will be effective April 19, 2023, for all plan approvals. The *Local Mitigation Plan Review Guide* is in effect until April 18, 2023, for all plan approvals.

If states request delegation of local mitigation plan approvals, they are expected to complete the following activities:

- States will review and approve local mitigation plans within 45 calendar days of receipt, whenever possible.
- States will notify FEMA when a local mitigation plan is adopted and approved and provide the following items to FEMA:
 - Copy of the local mitigation plan.
 - Copy of the completed Local Mitigation Plan Review Tool.
 - Copies of the adoption resolutions or documentation.
 - State’s approval notification.
 - Local jurisdiction’s contact information.
- States will be required to send monthly updates to the FEMA regional mitigation planning office, describing plan approval status, the status of plan reviews, technical assistance activities and scheduled training. States will also update the Mitigation Planning Portal if delegated permission from the FEMA regional mitigation planning office.

FEMA will continue to send final approval letters in accordance with the *Local Mitigation Planning Policy Guide*.

N.1. PAS: Disaster Delegation

States can request delegation of local mitigation plan approval under a HMGP or HMGP Post Fire award issued as part of a major disaster declaration.

N.2. PAS: Non-Disaster Delegation

States can request delegation of local mitigation plan approval when there is no open major disaster declaration.

O. PAS Performance Monitoring

FEMA will perform monitoring visits and provide tools and training as needed. FEMA’s monitoring program will vary depending on the size and scope of the HMGP or HMGP Post Fire award and the activities delegated to the recipient. As stated in the agreement, FEMA staff will conduct an overall review to determine if processes agreed to in the agreement and Administrative Plans or management plans are being followed. Monitoring visits will occur at least once a year. After the

monitoring visit is complete, FEMA will provide the recipient with a monitoring report and will work with the recipient to resolve any issues.

O.1. PAS: Disaster Delegation Grants Management Activities

Ongoing monitoring activities will be centered around the quarterly reporting periods. FEMA regional offices will evaluate the recipient's performance quarterly by reviewing award application data, quarterly or monthly reports, fiscal management processes, staffing allocations, key personnel changes and subaward procedures and processing. Annually, or as needed, FEMA will also conduct more in-depth monitoring activities either on-site or through desk reviews.

Monitoring visits will most likely coincide with grants management activity. For example, if FEMA has delegated the application review to the recipient, FEMA might conduct a review at the halfway point of the application period to ensure compliance. Review frequency can be addressed during the drafting of the agreement.

During a second-level review (desk review or site visit), FEMA will review project files for documentation compliance. For those recipients requesting delegation of fiscal activities, FEMA will review the recipient's audit report and use the fiscal testing system to follow up on concerns identified in the audit. As part of monitoring activities, FEMA regional staff may also interview recipient staff working on HMGP and HMGP Post Fire as part of the PAS Pilot (and subrecipients as needed) to learn how the program is being managed from their perspective.

Using FEMA's questions from a data collection plan for evaluation of the PAS Pilot, the agency will interview subrecipients to collect data to evaluate the effectiveness of the PAS Pilot.

O.2. PAS: Disaster and Non-Disaster Delegation of Local Mitigation Plan Approval

Ongoing monitoring activities will be centered on the monthly updates provided to the FEMA regional mitigation planner, who will evaluate the state's performance by reviewing plan status data, technical assistance activities and any changes in key personnel.

If FEMA delegates the local mitigation plan approval to the recipient, FEMA regional mitigation planning staff will conduct monitoring activities and make determinations regarding compliance. FEMA will conduct at least one plan review audit per year.

P. Noncompliance Under PAS

Recipients will be expected to continue to maintain performance as agreed to in the agreement and Administrative Plan or the management plan for the non-disaster option for review of local mitigation plans. Recipients will maintain the performance levels under which they were evaluated for PAS status. If FEMA finds significant declines in performance, the agency will provide the recipient information regarding the consequences for noncompliance, including the circumstances in which

PAS status can be revoked. For more information on noncompliance and actions to address deficiencies, refer to [Part 8](#).

Q. Revocation of PAS Status

FEMA will discuss with the recipient any findings from monitoring that may require remediation. The recipient must provide a plan and timeline to address the findings within 30 calendar days of notice from the region. If the corrective measures are not implemented or cannot be implemented within a reasonable time frame, FEMA will notify the recipient of the options available, including possible revocation of the PAS status. For more information on noncompliance and actions to address deficiencies, refer to [Part 8](#).

R. Subapplicant or Subrecipient Appeal Under PAS

The HMGP and HMGP Post Fire appeal process will not change under PAS. FEMA will continue to review appeals from subapplicants and subrecipients regarding eligibility of activities or costs.⁴⁷⁸

S. Financial Statement Audits Under PAS

Recipients are responsible for obtaining annual audits in accordance with [2 Code of Federal Regulations \(CFR\) Part 200](#). The financial audit determines if the recipient's financial documentation and processes are consistent with generally accepted accounting principles. These audits will help FEMA determine whether HMGP and HMGP Post Fire assistance is spent in accordance with program regulations and this PAS Pilot guidance.

For recipients with HMA awards, annual audits are required regardless of where the recipient is in the grant management process.

T. Program Audits Under PAS

Program audits are an impartial review of program documents to provide an independent assessment of the performance of HMGP and HMGP Post Fire.

Because PAS is a pilot program, FEMA anticipates that a program audit may be completed to determine the effectiveness of the PAS Pilot. The information in the audit will be used to help improve the provision of assistance under HMGP and HMGP Post Fire and report on program performance. FEMA and the Department of Homeland Security, Office of the Inspector General will continue to conduct program audits of HMGP and HMGP Post Fire.

⁴⁷⁸ [44 CFR § 206.440](#)

U. PAS and High-Risk Recipients

States, federally recognized tribes or territories classified as high-risk recipients cannot participate in or request PAS delegation because FEMA has determined the recipient has a documented history of unsatisfactory performance. High-risk recipients receive additional project monitoring and require additional FEMA approvals to conduct award activities.

V. PAS Roles and Responsibilities

The PAS Pilot is administered through a coordinated effort between FEMA and the recipient. While both entities must work together to meet the overall objective of streamlined program delivery, each has a different role.

FEMA will:

- Provide an application process for PAS privileges as well as evaluation criteria.
- Provide appropriate guidance on requirements of any delegated responsibilities noted in the Administrative Plan.
- Receive and approve the Administrative Plan or management plan for non-disaster option for review of local mitigation plans.
- Monitor recipient performance by reviewing Quarterly Progress Reports and or monthly planning reports.
- Monitor recipient performance through periodic evaluations to ensure PAS activities comply with program requirements.
- Continue to manage and coordinate funding with recipient in accordance with HMGP Disaster Spend Plan (refer to [Part 10.A.12](#)), strategic funds management and Large Project Notification (refer to [Part 7.B.2](#)) requirements.
- Conduct EHP reviews.

Recipients must:

- Incorporate PAS delegated functions into the Administrative Plan or management plan for non-disaster option for approval of local mitigation plans.
- Formulate hazard mitigation objectives based on the strategy in the FEMA-approved mitigation plan and any more recent information or data.
- Decide how to distribute assistance based on priorities established by the mitigation planning process.

- Adhere to all applicable HMGP and HMGP Post Fire statutes and regulations, including current guidance regarding HMGP/HMGP Post Fire administration.
- Meet all specified timelines.
- Maintain a continuing capacity to manage HMGP and HMGP Post Fire.
- Continue to manage and coordinate funding with FEMA in accordance with HMGP Disaster Spend Plan, strategic funds management, and Large Project Notification requirements.
- Retain documentation for FEMA quarterly audit reviews.

W. PAS Evaluation

To determine the PAS Pilot's effectiveness, a review team composed of recipient and FEMA representatives will conduct an evaluation. For recipients that participate, an evaluation will be conducted six years after the program starts. This evaluation will be different from the monitoring and auditing activities and will focus on the program rather than recipient performance. This team will evaluate the level of success of the PAS Pilot based on the previously identified program evaluation criteria, identify PAS Pilot components that worked well and make recommendations for any needed improvements or changes.

Performance metrics used to evaluate the PAS Pilot include measuring if recipient-administered programs are more efficient than traditionally run programs. Specifically, metrics will be used to evaluate if the program increased or decreased costs to administer HMGP and HMGP Post Fire, expedited or delayed obligations and project completions, and contributed to the overall effectiveness of the program.

X. PAS Delegated Activity Categories

The following sections address each delegated activity category. These sections provide a measurement item and/or target to document past performance for the specified delegated activity type. Recipients must meet the required measurement for PAS approval. In reviewing recipient requests for PAS participation, FEMA will only assess delegated activities requested by the recipient.

X.1. PAS: Timeframe for Past Performance

In general, FEMA will review the past performance of the last four quarters submitted to the agency prior to receiving the recipient request. FEMA may extend this time frame when insufficient data are available; these extensions will be noted when needed. For recipients updating their PAS status for a new major disaster declaration, FEMA will use the last four quarterly reports submitted prior to the major disaster declaration.

X.2. PAS: Data Needed in Recipient Request Letter

The amounts and types of data needed to support the recipient's request will vary based on the types of delegated activities selected. Recommended data elements are noted in each table and the list following them. Recipients may submit other data they determine may be necessary to support their request. FEMA will supplement its review of the request with grants management data for the recipient.

X.2.1. PAS: Application Review

Step 1: Review and approve HMGP and HMGP Post Fire subapplications and pre-award amendment requests using FEMA's expedited application approval process for obligating assistance. Recipients can select one or all the following:

- Project subapplicants (all projects or selected projects).
- Planning subapplications.
- Management costs.

Note: If a recipient chooses a subset of project types, FEMA will only evaluate related subapplications. For example, FEMA would only review structural elevation subapplications when the recipient requests delegated review limited to structural elevation subapplications.

Step 2: Approve finding of pre-award planning and project costs incurred by subrecipients.

The following list highlights the data needed to demonstrate past performance of application review when requesting delegation of application review activities (Steps 1 and 2 above) along with the measurable target(s) associated with each item:

- **Administrative plan:** List of declared disasters, HMGP and HMGP Post Fire awards and plan approval dates. The Administrative Plan is approved by FEMA within 90 calendar days of the major disaster declaration date.
- **Electronic data systems:** List of subapplications and document applications that were submitted electronically. All applications are entered into FEMA's electronic application systems.
- **Application eligibility and completeness:** List of subapplications and amendments for HMGP, HMGP Post Fire, Building Resilient Infrastructure and Communities (BRIC) and Flood Mitigation Assistance (FMA); date the application was submitted by the recipient; date approved by FEMA; and notation of whether the eligibility checklist or equivalent documentation was provided to FEMA.
 - A complete eligibility checklist for planning or project subapplications or equivalent documentation is prepared for all subapplications. Recipients may develop and use their own checklists if approved by FEMA and the recipient.

- All subapplications are determined to be complete by FEMA within 90 calendar days of submittal or selection for further review. Required EHP reviews and consultations will not be included in the 90-day time frame calculation.
- **Grant application extensions:** List of HMGP, HMGP Post Fire, BRIC, FMA and Pre-Disaster Mitigation (PDM) awards; application deadline date, if applicable; and date the request of extension was requested, if applicable. Any request to extend the HMGP or HMGP Post Fire application period was submitted at least 30 calendar days prior to the end of the expiration of the application period.
- **Training:** Staffing organizational chart or roster and a summary listing of training completed within the past five years as provided by recipient’s hazard mitigation officer, designated representative or training officer.
 - Staff managing application development under PAS have completed FEMA Emergency Management Institute EO212: *Unified Hazard Mitigation Assistance: Developing Quality Application Elements* course and other HMA-related courses.
 - Staff managing application development under PAS have completed a FEMA Environmental and Historic Preservation course.

X.2.2. PAS: Benefit-Cost Analyses

Step 1: Review and approve BCA submitted by subrecipients without FEMA review.

Step 2: Prepare own BCA without FEMA review.

The following list highlights the data needed to demonstrate past performance of BCAs when requesting delegation of BCA activities (Steps 1 and 2 above) along with the measurable target(s) associated with each item:

- **BCA:** List of subapplications (HMGP, HMGP Post Fire, BRIC, PDM and FMA), date BCA submitted, date reviewed and accepted as correct by FEMA. All applications are determined to be completed by FEMA within 90 calendar days of submittal or selection for further review, including all data requested by FEMA to support cost-effectiveness determinations. Required EHP review and consultations will not be included in the 90-day review time frame calculation.
- **Training:** Staffing organizational chart or listing and a summary listing of training completed within the past five years as provided by the hazard mitigation officer (or designated representative) or training officer.
 - Recipient staff who will prepare or review BCAs under PAS Agreement have completed a FEMA BCA course. Staff should complete modules for project types or hazards anticipated. Completion of all modules is not required.

- Recipient staff who have prepared BCA documentation have completed course E0212: *Unified Hazard Mitigation Assistance: Developing Quality Application Elements* or its equivalent.

X.2.3. PAS: Grants Management

Step 1: Approve post-award subrecipient scope of work modifications (that have no change to the project activity and no resulting need for additional federal assistance) without FEMA review. Submit an updated Minimum Eligibility Criteria Checklist or equivalent documentation and project summary via electronic data systems provided by FEMA. Recipients may develop and use their own checklists if approved by FEMA. Update Quarterly Progress Reports accordingly.

Step 2: Approve time limit extensions for subawards with no impact to the HMGP and HMGP Post Fire award period of performance. Document these changes in Quarterly Progress Report and electronic data systems.

Step 3: Administer HMGP and HMGP Post Fire for specific project types submitted by the subrecipient, including property acquisition and structure demolition, wildfire mitigation, safe rooms, structural elevation or other eligible hazard mitigation project type.

The following list highlights the data needed to demonstrate past performance of grants management when requesting delegation of grants management activities (steps 1, 2 and 3 above) along with the measurable target(s) associated with each item:

- **Grant extensions:** List of HMGP, HMGP Post Fire, BRIC, PDM and FMA awards and period of performance deadlines. Date of extension requests, if applicable. All work as part of HMA subawards must be completed by the end of the period of performance and the due date of the subaward final reports as described in the HMA Guide. All extension requests must be complete, on time and with adequate justification as described in guidance.
- **Recipient progress reports:** Dates progress reports were submitted to FEMA for all HMA awards. Documentation of extension approvals, if applicable. All progress reports must be complete and submitted on time. Information in the reports must accurately describe grant activities, including data related to the completion of individual property acquisitions. Incomplete progress reports that do not provide information on all open awards and subawards or include all information required by the HMA Guide are not considered on time.
- **Subaward closeout activities:** Listing of all HMGP, HMGP Post Fire, BRIC, PDM and FMA subawards that were closed out by the recipient. Hazard mitigation officer certifies subawards were closed out within 90 calendar days from the end of the period of performance. Because these data are found in recipient files, FEMA will review findings from FEMA monitoring and closeout reports.
 - All subaward closeout activities, including financial reconciliation, are completed within 90 calendar days from the end of the period of performance.

- Actual expenditures have been documented and are consistent with [Standard Form \(SF\) 424A, Budget Information for Non-Construction Programs](#), or [SF-424C, Budget Information for Construction Programs](#).⁴⁷⁹
- **Award closeout:** Dates documents were submitted to FEMA. Period of performance deadlines for respective HMGP, HMGP Post Fire, BRIC, PDM and FMA awards.⁴⁸⁰
 - Complete SF-425: *Federal Financial Report* and progress reports were submitted within 120 calendar days from the end of the period of performance.
 - Statement submitted that approved scope of work and all EHP requirements have been satisfied.
 - SF-270: *Request for Advance or Reimbursement* or request to de-obligate assistance is completed, if applicable because of cost underruns.
 - No late drawdowns were requested or performed after the liquidation period ended.

X.2.4. PAS: Fiscal Management

Step 1: Without prior approval from FEMA, approve post-award budget changes using assistance available because of cost underruns from other approved subawards. This assistance can be moved to approved subawards with cost overruns. Assistance can only be used within the same HMGP or HMGP Post Fire award.

Step 2: Prior to approval, determine whether the project meets eligibility requirements, including cost effectiveness and cost share. Submit an updated Minimum Eligibility Criteria Checklist or equivalent documentation and project summary via electronic data systems provided by FEMA. Update Quarterly Progress Reports accordingly. Recipients may develop and use their own checklists if approved by FEMA.

Step 3: Determine the eligible amount of reimbursement for each subaward claim and process payment without approval from FEMA.

The following list highlights the data needed to demonstrate past performance of fiscal management when requesting delegation of fiscal management activities (Steps 1, 2 and 3 above) along with the measurable target(s) associated with each item:

- **SF-425 prepared by recipient:** Dates SF-425 was submitted to FEMA. Documentation of extension approvals, if applicable. All federal financial reports are submitted on time. Information in reports projects an accurate picture of grant activities.

⁴⁷⁹ Forms can be found on the grants.gov "[SF-424 Family](#)" webpage.

⁴⁸⁰ Forms can be found on the grants.gov "[Post-Award Reporting Forms](#)" webpage.

- **Recipient financial management systems:** Narrative describing financial management. Recipient consistently complies with the financial management standard requirements described in [2 CFR §§ 200.300 - 309](#).
- **Recipient financial statement audit:** Date of last audit; summary of findings for HMA programs, if applicable; narrative on how recipient addressed findings, if applicable. No major findings on last single audit obtained by the recipient related to HMA programs. For recipients without HMA awards, FEMA will review other federal grants prepared by the responsible agency (i.e., state, tribal or territorial emergency management agency).
- **Closeout activities:** Date closeout documentation was submitted to FEMA. Period of performance deadline for respective HMA awards.
 - All award closeout activities, including financial reconciliation, are completed within 120 calendar days from the end of the period of performance, including:
 - Final SF-425 and Quarterly Progress Reports were submitted within 120 calendar days after the conclusion of the period of performance.
 - Statement that scope of work(s) has been completed as approved and all EHP requirements have been satisfied.
 - SF-270 (or request to de-obligate assistance is completed, if applicable because of cost underruns) was submitted on time.
 - Other documentation as required in the HMA Guide.
 - No drawdowns requested or performed after the liquidation period has ended.

X.2.5. PAS: Mitigation Planning (Disaster and Non-Disaster Agreements)

Step 1: Approve local mitigation plans using the process described below; FEMA will send final approval letters in accordance with the *Local Mitigation Planning Policy Guide*. FEMA will continue to send final approval letters to tribal communities when included in a multi-jurisdictional plan.

A national panel composed of FEMA headquarters and regional mitigation planning staff will review the state’s initial request for delegation of local mitigation plan approval. The following list highlights the data needed to demonstrate past performance of mitigation planning when requesting delegation of mitigation planning activities (Step 1 above) along with the measurable target(s) associated with each item:

- **Plans are approvable pending adoption:** List of local mitigation plans submitted to FEMA, noting which plans were approvable pending adoption (no required revisions). All local mitigation plan reviews are approvable pending adoption (no required revisions) following their initial review by

FEMA. If fewer than six plans have been submitted within the last four quarters, the six most recent plan reviews will be used to make this determination.

- **Mitigation planning training:** Staffing organizational chart or listing and a summary listing of staff who have completed training within the past five years as provided by the hazard mitigation officer (or designated representative) or training officer. A summary of staff experience or education can be provided to document equivalent experience. Staff who will be performing or managing local mitigation plan review under the PAS Pilot have completed courses [E-318/G-318: Local Hazard Mitigation Planning](#); [IS-318.A: Local Mitigation Planning Training](#); [IS-350: Mitigation Planning for Tribal Communities](#); and [IS-328: Plan Review for Local Mitigation Plans](#) or their equivalents as approved by the FEMA National Mitigation Planning Program.
- **Guidance and regulations:** Staffing organizational chart or listing and summary of staff experience as documented by the hazard mitigation officer (or designated representative) or manager of mitigation planning review. States document that staff dedicated to mitigation planning understand and have experience interpreting and implementing mitigation planning guidance and [44 CFR Part 201](#) mitigation planning regulations.
- **Administration of mitigation planning activities:** Mitigation planning regulations include standards for managing states, where mitigation planning regulations refer to Section 404(c) of the Stafford Act for provisions for PAS.⁴⁸¹ Under this pilot, states will be required to address these standards. Provide narrative as needed.
 - Resources: The state has documented the funding used to develop local mitigation plans, including HMA.⁴⁸²
 - Staff: The state has documented the capacity and capability of the mitigation planning staff to adequately provide consistent plan review, satisfactorily determine plans are approved pending adoption and provide technical assistance.
 - Technical assistance and training program: The state has documented the process used to (1) conduct plan review and provide technical assistance and training to local planners and (2) build local mitigation capability.⁴⁸³
 - Administration: The state has documented how it will conduct local mitigation plan reviews within the 45-day review period and will, whenever possible, provide a copy of the plan and a monthly status report to FEMA that includes plan approval status, status of plan reviews, technical assistance activities and training scheduled.⁴⁸⁴

⁴⁸¹ [42 U.S.C. § 5170c\(c\)](#)

⁴⁸² [44 CFR § 201.4\(c\)\(4\)](#)

⁴⁸³ [44 CFR § 201.3\(c\)\(5\)](#)

⁴⁸⁴ [44 CFR § 201.6\(d\)\(4\)](#)

X.2.6. PAS: Commitment to Mitigation

The review of Commitment to Mitigation has two parts. The first part addresses the recipient's ability to manage the HMGP, HMGP Post Fire and Mitigation Planning programs. The second part addresses the recipient's ability to support hazard mitigation practices and activities statewide.

X.2.6.1. PAS: Major Disaster Declaration - Grants Management Experience

In the request letter, a recipient should provide information to support that they:

- Staff HMGP and HMGP Post Fire such that there are in-house or contract staff responsible for all elements, including delegated activities throughout the HMGP and HMGP Post Fire award lifecycles.
- Manage HMGP and HMGP Post Fire resources so they can conduct the standard and delegated activities throughout the HMGP and HMGP Post Fire award cycles.
- Provide technical assistance to communities and eligible subapplicants such that they are then able to perform the function for which they requested assistance.
- Use an effective management plan to administer HMGP, HMGP Post Fire and Mitigation Planning such that post-disaster hazard mitigation activities derive from mitigation planning, and that these activities are executed in a systematic, organized fashion that ensures compliance with HMGP and HMGP Post Fire requirements and regulations.

X.2.6.2. PAS: Approval of Local Mitigation Plans - Mitigation Planning Experience to Support HMGP/HMGP Post Fire

In the request letter, a recipient should provide information to support that they:

- Staff the Mitigation Planning program such that there are in-house or contract staff to adequately provide training, technical assistance, and plan review and approvals.
- Manage HMA program resources so they can provide assistance to develop and update local mitigation plans.
- Provide training and technical assistance to communities and eligible subapplicants such that they are then able to develop an approvable local mitigation plan.
- Use an effective management plan to administer Mitigation Planning programs to identify long-term, broadly supported strategies for risk reduction and identify implementation approaches for future HMGP/HMGP Post Fire awards.

X.2.6.3. PAS: Mitigation Practices and Activities

In the request letter, a recipient should indicate whether they have a standard or enhanced mitigation plan and provide the date the plan was approved by FEMA.

Recipients with a standard mitigation plan must provide information that describes an existing comprehensive hazard mitigation program that might include but is not limited to examples listed in the mitigation planning regulation [44 CFR § 201.5\(b\)\(4\)](#). A “comprehensive mitigation program” means a broad range of recipient-supported initiatives and activities that:

- Target risk reduction for each of the identified hazards in the recipient’s plan.
- Are inclusive of various governmental agencies and sectors with hazard mitigation capabilities and resources.
- Are coordinated to increase the state, tribe or territory’s resilience from the adverse impacts of future hazard events.

Initiatives and activities that demonstrate commitment include but are not limited to a combination of current training, partnerships, leadership initiatives, assistance, technical assistance, codes and ordinances, or other activities that reduce risk.

Part 15. Appendices

A. FEMA Contacts

If requested, FEMA will provide training and technical assistance to both applicants and subapplicants (by way of their applicants) regarding:

- General questions about FEMA’s programs, including the HMA programs; mitigation planning; and Risk Mapping, Assessment and Planning.
- Feasibility and effectiveness, cost effectiveness and environmental and historic preservation compliance during the application period.
- The electronic application system processes.

FEMA encourages applicants and subapplicants (by way of their applicants) to seek technical assistance early in the application period by contacting their appropriate FEMA regional office. Table 30 shows which states and territories each FEMA region serves.

Table 30: FEMA Regions

Region	Serving
1	Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island and Vermont
2	New Jersey, New York, Puerto Rico and U.S. Virgin Islands
3	Delaware, District of Columbia, Maryland, Pennsylvania, Virginia and West Virginia
4	Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina and Tennessee
5	Illinois, Indiana, Michigan, Minnesota, Ohio and Wisconsin
6	Arkansas, Louisiana, New Mexico, Oklahoma and Texas
7	Iowa, Kansas, Missouri and Nebraska
8	Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming
9	Arizona, California, Hawaii, Nevada, Guam, American Samoa, Commonwealth of Northern Mariana Islands, Republic of Marshall Islands and Federated States of Micronesia
10	Alaska, Idaho, Oregon and Washington



Contact Information Resources

- FEMA regional offices: <https://www.fema.gov/about/organization/regions>
- State and territorial hazard mitigation officers:
<https://www.fema.gov/grants/mitigation/state-contacts>
- External tribal liaisons: <https://www.fema.gov/about/organization/tribes>

B. Acronyms

ADA	Americans with Disabilities Act
ASCE	American Society of Civil Engineers
BCA	Benefit-Cost Analysis
BCR	Benefit-Cost Ratio
BRIC	Building Resilient Infrastructure and Communities
CATEX	Categorical Exclusion
CBRS	Coastal Barrier Resources System
CFR	Code of Federal Regulations
CRS	Community Rating System
EHP	Environmental and Historic Preservation
EO	Executive Order
FAPIS	Federal Awardee Performance and Integrity Information System
FEMA	Federal Emergency Management Agency
FEMA GO	FEMA Grants Outcomes
FIRM	Flood Insurance Rate Map
FMA	Flood Mitigation Assistance
FMAG	Fire Management Assistance Grant
HHPD	High Hazard Potential Dam
HMA	Hazard Mitigation Assistance
HMA Guide	Hazard Mitigation Assistance Program and Policy Guide
HMGP	Hazard Mitigation Grant Program
HMGP Post Fire	Hazard Mitigation Grant Program Post Fire
IA	Individual Assistance

IBC	International Building Code
ICC	International Code Council
IEBC	International Existing Building Code
LANDFIRE	Landscape Fire and Resource Management Planning Tools
MCER	Risk-Targeted Maximum Considered Earthquake
MPH	miles per hour
NASA	National Aeronautics and Space Administration
NFIP	National Flood Insurance Program
NFPA	National Fire Protection Association
NOAA	National Oceanic and Atmospheric Administration
NOFO	Notice of Funding Opportunity
OCFO	Office of the Chief Financial Officer
OMB	Office of Management and Budget
PA	Public Assistance
PARS	Payment and Reporting System
PAS	Program Administration by States
PDM	Pre-Disaster Mitigation
PR&G	Principles, Requirements and Guidelines for Federal Investments in Water Resources
Risk MAP	Risk Mapping, Assessment and Planning
RFI	Request for Information
S ₁	1.0 Second
SEI	Structural Engineering Institute
SF	Standard Form
SFHA	Special Flood Hazard Area

S _s	0.2 Second
Stafford Act	Robert T. Stafford Disaster Relief and Emergency Assistance Act
TB	Technical Bulletin
URA	Uniform Relocation Assistance and Real Property Acquisition Policies Act
USACE	U.S. Army Corps of Engineers
U.S.C.	United States Code

C. Glossary

All terms not listed below are used consistent with the term definitions used in Title 44 of the CFR unless otherwise specified.

Administrative actions: Grants management requirements to close out an award or subaward including conducting final inspections for projects, validating expenditures, resolving negative audit findings, obtaining and preparing final reports, and completing closeout activities.

Adverse impact/adverse effect: In general terms related to EHP laws, a negative impact (e.g., loss, destruction, modification) to an environmental or historic resource that can have a direct, indirect or cumulative effect on that resource. Impacts or effects may be short-term or long-term in duration.

Applicant: The entity, such as a state, federally recognized tribe or territory applying to FEMA for a federal award that will be accountable for the use of the funds. Once funds are awarded, the applicant becomes the recipient or pass-through entity or both.

Approved mitigation plan: A plan developed to guide mitigation investments and meets the requirements set forth for state, local or tribal mitigation plans in 44 CFR Part 201: *Mitigation Planning*, including formal adoption by the state or governing body, as well as meets requirements set forth by applicable state, local or tribal mitigation planning policies.

Approximate Zone A: An area subject to inundation by the 1% annual chance flood event. Because detailed hydraulic analyses have not been performed, no Base Flood Elevations or flood depths are shown.

Authority having jurisdiction: A term defined used by the Internal Code Council consensus standard for safe rooms to mean the organization, political subdivision, office or individual charged with the responsibility for administering and enforcing the provisions of this standard.

Automatic Disconnecting Means (ADM): Mechanism, such as a multimode inverter or microgrid interconnect device, that allows the system to isolate from the grid and operate in island mode.

Award: A grant of financial assistance for a specified purpose by the federal government to an eligible recipient.

Base flood: A flood having a 1% chance of being equaled or exceeded in any given year.

Base flood elevation: The elevation shown on the FIRM for Zones AE, AH, A1–A30, AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO, V1–V30 and VE that indicates the water surface elevation resulting from a flood that has a 1% chance of equaling or exceeding that level in any given year.

Benefit-Cost Analysis (BCA): A quantitative procedure that assesses the cost effectiveness of a hazard mitigation measure by taking a long-term view of avoided future damage compared to the cost of a project.

Benefit-Cost Ratio (BCR): A numerical expression of the cost effectiveness of a project calculated as the net present value of total project benefits divided by the net present value of total project costs.

Biomass: Biological material derived from living or recently living organisms.

Building: *refer to “structure”*

Clean-site certification: A letter from the appropriate federal, state, local, federally recognized tribal or territorial entity determining that no further remedial action is required to protect human health or the environment.

Coastal Barrier Resources Act (CBRA): This Act, passed in 1982 and amended in 1990, aims to remove the federal incentive to allow for development within coastal barrier areas within the United States, Puerto Rico and the U.S. Virgin Islands, as well as preserve the ecological integrity of areas that serve as storm buffers. The Act designates Coastal Barrier Resources System units and makes these areas ineligible for most federal expenditures and financial assistance, including federal flood insurance; the law does provide for funding exceptions within Section 6. The law also designates Otherwise Protected Areas for which only flood insurance is prohibited.

Coastal Barrier Resources System (CBRS): A geographic unit designated to serve as a protective barrier against forces of wind and tidal action caused by coastal storms and serving as habitat for aquatic species. Congress restricted federal spending and assistance for development-related activities within CBRS units to protect them from further development. Flood insurance is unavailable in these areas unless exceptions of Section 6 of the Coastal Barrier Resources Act apply. CBRS units are identified on FEMA FIRMs.

Coastal high hazard area: An area of special flood hazard extending from offshore to the inland limit of a primary frontal dune along an open coast and any other area subject to high-velocity wave action from storms or seismic sources.

Combustible material: Any material that, in the form in which it is used and under the conditions anticipated, will ignite and burn or will add appreciable heat to an ambient fire.

Community Rating System (CRS): A program developed by FEMA to provide incentives for those communities in the NFIP that have gone beyond the minimum floodplain management requirements to develop extra measures to provide protection from flooding.

Community resilience: The ability to prepare for anticipated hazards, adapt to changing conditions, and withstand and recover rapidly from disruptions. Activities such as disaster preparedness (prevention, protection, mitigation, response and recovery) are key steps to resilience.

Cost effectiveness: Determined by a systematic quantitative method for comparing the costs of alternative means of achieving the same stream of benefits for a given objective. The benefits in the context of hazard mitigation are avoided future damage and losses. Cost effectiveness is determined by performing a BCA.

Cost sharing: The portion of project costs not paid by federal funds or contributions (unless authorized by federal statute). This term includes matching, which refers to required levels of cost share that must be provided.⁴⁸⁵

Critical action: An action for which even a slight chance of flooding is too great. The minimum floodplain of concern for critical actions is the 0.2% annual chance floodplain (i.e., critical action floodplain). Critical actions include but are not limited to those that create or extend the useful life of structures or facilities. The following are some examples:

- Those which produce, use or store highly volatile, flammable, explosive, toxic or water-reactive materials.
- Hospitals, nursing homes and housing for the elderly, which are likely to contain occupants who may not be sufficiently mobile to avoid the loss of life or injury during flood and storm events.
- Emergency operation centers or data storage centers, which contain records or services that may become lost or inoperative during flood and storm events.
- Generating plants and other principal points of utility lines.

Critical facilities: Structures and institutions necessary, in the community's opinion, for response to and recovery from emergencies. Critical facilities must continue to operate during and following a disaster to reduce the severity of impacts and accelerate recovery. These would include, but not be limited to:

- Structures or facilities that produce, use or store highly volatile, flammable, explosive, toxic and/or chemically reactive materials.
- Hospitals, nursing homes and housing likely to have occupants who may not be sufficiently mobile to avoid injury or death during an emergency.
- Police stations, fire stations, vehicle and equipment storage facilities, and emergency operations centers that are needed for emergency response activities before, during and after the event.
- Public and private utility facilities vital to maintaining or restoring normal services to affected areas before, during and after the event.
- Other structures or facilities the community identifies as meeting the general criteria above.

This definition is for HMA program use and clarification and is not meant to provide a definition for use under other programs or supersede any FEMA regulation.

⁴⁸⁵ [2 C.F.R. § 200.1](#)

Defensible space: An area that is either natural or manmade, where material capable of allowing a fire to spread unchecked has been treated, cleared or modified to slow the rate and intensity of an advancing wildfire and to create an area for fire suppression operations to occur.

Direct costs: Costs that can be identified specifically with a particular final cost objective, such as a federal award or cost that can be linked to a specific project.

Disability: As defined by [42 U.S.C. § 12102\(1\)](#) and incorporated into the Stafford Act at [42 U.S.C. § 5122](#), disability means, “with respect to an individual, (A) a physical or mental impairment that substantially limits one or more major life activities of such individual; (B) a record of such an impairment; or (C) being regarded as having such an impairment.”

Discount rate: The interest rate used in calculating the present value of expected yearly benefits and costs. For FEMA-funded projects, the rate is set by Office of Management and Budget.

Distribution panel: Distribution panel or equipment that the output of the inverter will be connected to.

Distributed energy resource: Small, modular, energy-generation and storage technology that provides electric capacity or energy where needed.

Dwelling: A building designed for use as a residence for no more than four families or a single-family unit in a building under a condominium form of ownership.

Elevated building: A building that has no basement and the lowest floor is elevated to or above the Base Flood Elevation by foundation walls, shear walls, posts, piers, pilings or columns. Solid perimeter foundations walls are not an acceptable means of elevating buildings in Zones V and VE.

Environmental benefits: Direct or indirect contributions that ecosystems make to the environment and human populations. For FEMA BCA, certain types of environmental benefits may be realized when homes are removed and land is returned to open space uses. Benefits may include flood hazard reduction; an increase in recreation and tourism; enhanced aesthetic value; and improved erosion control, air quality and water filtration.

Equipment: Tangible personal property (including information technology systems) having a useful life of more than one year and a per-unit acquisition cost that equals or exceeds the lesser of the capitalization level established by the recipient or subrecipient for financial statement purposes or \$10,000.⁴⁸⁶

Executive authorized signature authority: The individual, designated by the governor or tribal chief executive, who serves as the grant administrator for all the funds provided under BRIC and FMA; the

⁴⁸⁶ [2 CFR § 200.1](#)

person empowered by the governor or tribal chief executive to execute, on behalf of the state or tribe, all necessary documents for assistance.

Federal agency: Any department, independent establishment, government corporation or other agency of the executive branch of the federal government, including the U.S. Postal Service but not the American National Red Cross.

Federal award: The federal financial assistance that a recipient receives directly from FEMA or indirectly from a pass-through entity or the instrument such as the FEMA-State Agreement, cooperative agreement or other agreement setting forth the terms and conditions of the financial assistance.

Federal award date: The date when the authorized official of the federal agency signed (physically or digitally) the federal award or when an alternative consistent with the requirements of 31 U.S.C 1501 is reached with the recipient.

Federally recognized tribal government:⁴⁸⁷ The governing body of any Indian or Alaska Native tribe, band, nation, pueblo, village or community that the Secretary of the Interior acknowledges to exist as an Indian tribe under the Federally Recognized Indian Tribe List Act of 1994.⁴⁸⁸ This does not include Alaska Native corporations, the ownership of which is vested in private individuals. Also known as Indian Tribal Government.

Final expenditure report: A complete and accurate report the recipient submits to FEMA for a subaward, certifying that the award terms and conditions have been met and project costs are reconciled.

Fire break: A strip of cleared land that provides a gap in vegetation or other combustible material that is expected to slow or stop the progress of a wildfire.

Fireproofing: Removal or treatment of fuels to reduce the danger of fires igniting or spreading (e.g., fireproofing roadsides, campsites, structural timber).

Fire-resistant material: Material that has a property that prevents or retards the passage of excessive heat, hot gases or flames under conditions of use.

Fire retardant: A chemical applied to lumber or other wood products to slow combustion and flame spread.

Fire severity zone: Three concentric zones around a building used to determine the most effective design for defensible space.

⁴⁸⁷ Section 102(6) of the Stafford Act ([42 U.S.C. § 5122\(6\)](#)); [44 CFR § 201.2](#); [44 CFR § 206.431](#); [44 CFR § 77.2\(f\)](#).

⁴⁸⁸ Public Law 103-454 (Nov. 2, 1994), [25 U.S.C. § 5130](#).

Flammability: The relative ease with which fuels ignite and burn regardless of the quantity of the fuels.

Flood Insurance Rate Map (FIRM): Official map of a community on which FEMA has delineated both the special hazard areas and the risk premium zones applicable to the community. A FIRM that has been made available digitally is called a Digital Flood Insurance Rate Map (DFIRM).

Floodplain: Any land area that FEMA has determined has at least a 1% chance in any given year of being inundated by floodwaters from any source.

Floodplain management: The operation of an overall program of corrective and preventive measures for reducing flood damage, including but not limited to, emergency preparedness plans, flood risk reduction works and floodplain management regulations.

Floodway: The channel of a river or other watercourse and the adjacent land areas that must be reserved to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height. Communities regulate development in these floodways to ensure there are no increases in upstream flood elevations.

Freeboard: A factor of safety usually expressed in feet above a flood level for purposes of floodplain management. “Freeboard” tends to compensate for the many unknown factors that could contribute to flood heights greater than the height calculated for a selected size flood and floodway conditions, such as wave action, bridge openings and the hydrological effect of urbanization of the watershed.

Fuel break: A natural or manmade change in fuel characteristics that affects fire behavior so that fires burning into them can be more readily controlled.

Fuel condition: Relative flammability of fuel as determined by fuel type and environmental conditions.

Governor’s authorized representative: The individual, designated by the governor, who serves as the grant administrator for all funds provided under HMGP; the person empowered by the governor to execute, on behalf of the state, all necessary documents for disaster assistance.

Gray infrastructure: Human-made structures that are engineered to provide a specific level of service under specific scenarios and generally addresses a single purpose. Gray infrastructure is also known as traditional infrastructure.

Green infrastructure: A subset of nature-based solutions, which consists of a sustainable approach to natural landscape preservation and stormwater management that can be used for hazard mitigation activities as well as provide additional ecosystem service benefits. Green infrastructure methods use an ecosystem-based approach to replicate a site’s predevelopment condition and function.

Green open space: Green open space is land that does not directly touch a natural body of water, such as a river, lake, stream, creek or coastal body of water.

Hazard mitigation: Any sustained action taken to reduce or eliminate long-term risk to people and property from natural hazard events and their effects.

Hazard mitigation officer: The representative of a state, tribal or territorial government who is the primary point of contact with FEMA, other federal agencies and local units of government in the planning and implementation of pre- and post-disaster hazard mitigation activities.

Hazard mitigation planning: A process used by governments to identify risks, assess vulnerabilities and develop long-term strategies for protecting people and property from the effects of future natural hazard events.

Hazardous fuels reduction: An activity in an area strategically located in relation to predicted fire hazard and occurrence for which the vegetation has been permanently modified or replaced so that fires burning into it can be more easily controlled (e.g., vegetation management activities).

HMGP lock-in/ceiling: The maximum amount of HMGP funding available to a recipient for a particular major disaster declaration.

HMGP Post Fire available assistance amount: The aggregated maximum amount of HMGP Post Fire funding available to a recipient for the fiscal year based on their total number of FMAG declarations.

Hybrid system: Hybrid photovoltaic system may be either connected to the grid or have a backup battery system in addition to another means of generation, such as a traditional generator (using diesel or natural gas as fuel) or combined heat and power (CHP).

Identified for further review: Subapplications identified for further review contain sufficient information for a preliminary determination of cost effectiveness and feasibility. In certain instances, FEMA may work with applicants to confirm cost effectiveness and feasibility. Identification for further review is not a notification of award.

Ignition-resistant construction: Construction standards based on use of fire-resistant materials, noncombustible materials and one-hour fire-rated assemblies.

Improper payment: A payment that should not have been made or that was made in an incorrect amount under statutory, contractual, administrative, or other legally applicable requirements.

Increased cost of compliance: Coverage for expenses a property owner must incur, above and beyond the cost to repair the physical damage the structure actually sustained from a flooding event, to comply with hazard mitigation requirements of state or local floodplain management ordinances or laws; acceptable hazard mitigation measures are structure elevation, dry floodproofing, structure relocation, structure demolition or any combination thereof.

Indian tribal government: Refer to “Federally recognized tribal government” above.

Indirect cost: Costs incurred for a common or joint purpose benefitting more than one cost objective and not readily assignable to the cost objectives specifically benefited without effort disproportionate to the results achieved.

Indirect cost rate: Percentage established by a federal department or agency for a recipient or subrecipient to use in computing the dollar amount it charges to the award to reimburse itself for indirect costs incurred in doing the work of the award activity.

Local government: Any county, municipality, city, town, township, public authority, school district, special district, intrastate district, council of governments (regardless of whether the council of governments is incorporated as a nonprofit corporation under state law), regional or interstate government entity, or agency or instrumentality of a local government; any tribe or authorized tribal organization, or Alaska Native village or organization that is not a federally recognized tribe; and any rural community, unincorporated town or village, or other public entity.

Major disaster declaration: Any natural catastrophe (including any hurricane, tornado, storm, high water, wind-driven water, tidal wave, tsunami, earthquake, volcanic eruption, landslide, mudslide, snowstorm or drought) or, regardless of cause, any fire, flood or explosion, in any part of the United States that, in the determination of the President, causes damage of sufficient severity and magnitude to warrant disaster assistance under the Stafford Act to supplement the efforts and available resources of states, local governments and disaster relief organizations in alleviating the damage, loss, hardship or suffering caused thereby.

Management costs: Any indirect costs, any direct administrative costs, and any other administrative expense associated with a specific project under a major disaster, emergency, disaster preparedness or hazard mitigation activity or measure. For HMGP, management costs are provided outside of federal assistance limits defined at [44 CFR § 206.432\(b\)](#).

Manufactured (mobile) home: A structure, transportable in one or more sections, that is built on a permanent chassis and designed for use with or without a permanent foundation when attached to the required utilities.

Market value: The amount in cash, or on terms reasonably equivalent to cash, for which in all probability the property would have sold on the effective date of the valuation, after a reasonable exposure time on the open competitive market, from a willing and reasonably knowledgeable seller to a willing and reasonably knowledgeable buyer, with neither acting under any compulsion to buy or sell, giving due consideration to all available economic uses of the property at the time of the valuation.⁴⁸⁹

⁴⁸⁹ As defined by the [Uniform Appraisal Standards for Federal Land Acquisitions](#) (2016).

Microgrid: Group of interconnected energy-consuming devices and equipment (e.g., homes, businesses or industrial facilities) and DERs within clearly defined electrical boundaries that act as a single controllable entity with respect to the utility grid.

Mitigation activity: A hazard mitigation measure, project, plan or action proposed to reduce risk of future damage, hardship, loss or suffering from disasters. The term “measure” is used interchangeably with the term “project” in this program.

National Flood Insurance Program (NFIP): Federal program that provides the availability of flood insurance in exchange for the adoption of a minimum local floodplain management ordinance that regulates new and substantially improved development in identified flood hazard areas.

National Mitigation Investment Strategy: A product the Mitigation Framework Leadership Group developed upon the recommendation of the Government Accountability Office in GAO-15-515: *Hurricane Sandy: An Investment Strategy Could Help the Federal Government Enhance National Resilience for Future Disasters* (July 2015). It was published in the summer of 2019. The goal of the Investment Strategy is to identify, prioritize and guide investments in pre- and post-disaster resilience and hazard mitigation-related activities. The Investment Strategy is risk-informed; grounded in data; and incorporates state, local, tribal, territorial and private-sector perspectives.

New construction: The construction of a new structure (including the placement of a mobile home) or facility or the replacement of a structure or facility that has been totally destroyed.

Noncombustible material: Material of which no part will ignite and burn when subjected to fire, such as any material conforming to ASTM International Standard E136: *Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750°C*.

Non-federal cost share: The portion of the costs of a federally assisted project or program not borne by the federal government.

Non-federal entity: A state government, local government, federally recognized tribe or private nonprofit organization that carries out a federal award as a recipient or subrecipient (or a grantee or subgrantee as referenced in the previous versions of the guidance).

Nonflammable: Material unlikely to burn when exposed to flame under most conditions.

Non-federal funds: Financial resources provided by sources other than the federal government. The term does not include funds provided to a state or local government through a federal grant unless the authorizing statute for that grant explicitly allows the funds to be used as cost share for other federal grants.

Non-residential structure: Includes but is not limited to small business concerns, places of worship, schools, farm buildings (including grain bins and silos), pool houses, clubhouses, recreational buildings, mercantile structures, agricultural and industrial structures, warehouses, hotels and motels with normal room rentals for less than six months’ duration, and nursing homes.

Notice of Funding Opportunity (NOFO): A formal announcement of the availability of federal funding through a financial assistance program from a federal agency. The NOFO provides information on the award, who is eligible to apply, the evaluation criteria for selection of an awardee, required components of an application and how to submit the application.

Obligation: A legal commitment by FEMA to pay amounts in accordance with the grant agreement.

Office of Environmental Planning and Historic Preservation (OEHP): A FEMA office that integrates the protection and enhancement of environmental, historic and cultural resources into the FEMA mission and FEMA programs and activities; ensures FEMA activities and programs related to disaster response and recovery, hazard mitigation and emergency preparedness comply with federal EHP laws and executive orders; and provides EHP technical assistance to FEMA staff; federal, state and local partners; and recipients and subrecipients.

Otherwise protected areas: Designation created by the Coastal Barrier Improvement Act of 1990.⁴⁹⁰ Flood insurance is restricted in Otherwise Protected Areas even though they are not in the CBRS and may receive other forms of federal assistance. Otherwise Protected Areas are identified on FEMA FIRMs.

Pass-through entity: A recipient or subrecipient that provides a subaward to a subrecipient (including lower tier subrecipients) to carry out part of a federal program.

Period of performance: According to [2 CFR § 200.1](#), period of performance means the total estimated time interval between the start and end date of a federal award, which may include one or more funded portions, or budget periods. For HMA programs, the period of performance is the time during which the recipient or subrecipient may incur new obligations to carry out the work authorized under the federal award. According to [2 CFR § 200.211](#), the federal agency must include start and end dates of the period of performance in the federal award. According to [2 CFR § 200.332](#), the pass-through entity must include start and end dates of the period of performance in the subaward.

Pile burning: Piling removed vegetation into manageable piles and burning the individual piles during safe and approved burning conditions.

Post-flood insurance rate map building: A building for which construction or substantial improvement occurred after Dec. 31, 1974, or on or after the effective date of an initial FIRM, whichever is later.

Practicable: An action that is capable of being done within existing constraints. The test of what is practicable depends upon the situation and includes consideration of all pertinent factors, such as environment, cost and technology.

Pre-flood insurance rate map building: A building for which construction or substantial improvement occurred on or before Dec. 31, 1974, or before the effective date of an initial FIRM.

⁴⁹⁰ Public Law 101-591 (Nov. 16, 1990)

Prescribed burning: The deliberate and managed use of fire ignited by management actions to meet specific fuels management objectives.

Prior approval: the written approval obtained in advance by an authorized official of a federal agency or pass-through entity of certain costs or programmatic decisions.

Private Nonprofit (PNP): An eligible private nonprofit is any private nonprofit educational, utility, emergency, medical, or custodial care facility, including a facility for older adults and people with disabilities, any other facility providing essential governmental services to the general public, and such facilities on Indian reservations. For further information refer to [44 CFR § 206.221\(e\)](#) and [44 CFR § 206.434\(a\)\(2\)](#).

Project: Any hazard mitigation measure or action proposed to reduce risk of future damage, hardship, loss or suffering from disasters.

Public Assistance: Supplementary federal assistance provided under the Stafford Act to state and local governments or certain private nonprofit organizations other than assistance for the direct benefit of individuals and families.⁴⁹¹

Real property: land, including land improvements, structures, and appurtenances thereto, and legal interests in land, including fee interest, licenses, rights of way, and easements. Real property excludes moveable machinery and equipment.

Recipient: An entity that receives a federal award directly from a federal agency to carry out an activity under a federal program. The term recipient does not include subrecipients.

Replacement cost value: The cost to replace property with materials of like kind and quality, without any deduction for depreciation.

Resilience: The ability to prepare for anticipated hazards, adapt to changing conditions, and withstand and recover rapidly from disruptions.

Required work: Activities to complete the approved scope of work.

Riparian area: The land that directly abuts a natural body of water, such as a river, lake, stream, creek or coastal body of water.

Slash: The accumulation of vegetative materials such as tops, limbs, branches, brush and miscellaneous residue results from forest management activities such as thinning, pruning, timber harvesting and wildfire hazard mitigation.

Small and impoverished communities: A community of 3,000 or fewer individuals that is identified by the applicant as a rural community and is not a remote area within the corporate boundaries of a

⁴⁹¹ [44 CFR Part 206, Subpart G](#) and [44 CFR Part 206, Subpart H](#)

larger city; is economically disadvantaged, by having an average per capita annual income of residents not exceeding 80 percent of national, per capita income, based on best available data; the local unemployment rate exceeds, by one percentage point or more, the most recently reported average yearly national unemployment rate; and any other factors identified in the applicant or recipient's hazard mitigation plan in which the community is located.⁴⁹²

Small impoverished community: A community of 3,000 or fewer individuals identified by the applicant that is economically disadvantaged, with residents having an average per capita annual income not exceeding 80% of the national per capita income, based on best available data.⁴⁹³

Special Flood Hazard Area (SFHA): The land in the floodplain within a community subject to a 1% or greater chance of flooding in any given year. An area having special flood, mudflow or flood-related erosion hazards. Shown on a Flood Hazard Boundary Map or a FIRM as Zone A, AO, A1–A30, AE, A99, AH, AR, AR/A, AR/AE, AR/AH, AR/AO, AR/A1–A30, V1–V30, VE or V.

Structural fire protection: The protection of homes or other buildings from wildland fire.

Structure (floodplain management): A walled and roofed building, including a gas or liquid storage tank, that is principally above ground, as well as a manufactured home.⁴⁹⁴

Structure (insurance): (1) A building with two or more outside rigid walls and a fully secured roof, that is affixed to a permanent site; (2) a manufactured home (“a manufactured home,” also known as a mobile home, is a structure: built on a permanent chassis, transported to its site in one or more sections, and affixed to a permanent foundation); or (3) a travel trailer without wheels, built on a chassis and affixed to a permanent foundation, that is regulated under the community's floodplain management and building ordinances or laws. “Structure” does not mean a recreational vehicle or a park trailer or other similar vehicle, except as described in item (3) of this definition, or a gas or liquid storage tank.⁴⁹⁵

Subapplicant: The entity, such as a community/local government, federally recognized tribe, or private nonprofit that submits a subapplication to the applicant for FEMA assistance. Once funding is awarded, the subapplicant becomes the “subrecipient.”

Subaward: An award provided by a pass-through entity to a subrecipient for the subrecipient to contribute to the goals and objectives of the project by carrying out part of a federal award received by the pass-through entity. It does not include payments to a contractor beneficiary, or participant. A subaward may be provided through any form of legal agreement, including an agreement consistent with criteria within [§ 200.331](#), including an agreement that the pass-through entity considers a contract.

⁴⁹² [44 CFR § 201.2 “Small and impoverished communities”](#)

⁴⁹³ [42 U.S.C. § 5133\(a\)](#)

⁴⁹⁴ [44 CFR § 59.1 “Structure”](#)

⁴⁹⁵ [44 CFR § 59.1 “Structure”](#)

Subrecipient: An entity that receives a subaward from a pass-through entity to carry out part of a federal program but does not include an individual that is a beneficiary of such program. A subrecipient may also be a recipient of other federal awards directly from a federal agency.

Subrecipient authorized representative: The individual who serves as the grant administrator for all funds provided under the HMA programs to execute all necessary documents for assistance on behalf of the subapplicant/subrecipient.

Substantial damage: Damage of any origin sustained by a building whereby the cost of restoring the building to its before-damaged condition would equal or exceed 50% of the market value of the building before the damage occurred.

Substantial improvement: Any reconstruction, rehabilitation, addition or other improvement of a structure, the cost of which equals or exceeds 50% of the market value of the structure before the “start of construction” of the improvement. This term includes structures that have incurred “substantial damage,” regardless of the actual repair work performed.⁴⁹⁶

Supply: All tangible personal property that does not fall under the definition of equipment.

Termination: The action a federal agency or pass-through entity takes to discontinue a federal award, in whole or in part, at any time before the planned end date of the period of performance. Termination does not include discontinuing a federal award due to a lack of available funds.⁴⁹⁷

Tribal authorized representative: The individual, designated by the tribal chief executive, who serves as the grant administrator for all funds provided under HMGP; the person empowered by the tribal chief executive to execute, on behalf of the tribe, all necessary documents for disaster assistance.

Tribal chief executive: The person who is the chief, chairman, governor, president, or similar executive official of an Indian tribal government.⁴⁹⁸

Void: A subaward for which no federal funds have been allocated or obligated and the recipient no longer wishes to complete the activity. No final claim letter will be sent to the recipient once the subaward is void and closed.

Warning system: Equipment and systems to warn people about natural hazards.

Whole community: A focus on enabling the participation in national preparedness activities of a wider range of players from the private and nonprofit sectors, including nongovernmental organizations and the general public, in conjunction with the participation of all levels of

government in order to foster better coordination and working relationships. The whole community includes individuals and families (including those with access and functional needs) businesses,

⁴⁹⁶ Refer to [44 CFR § 9.4](#) for the full definition.

⁴⁹⁷ [2 CFR § 200.1](#)

⁴⁹⁸ [42 U.S.C. § 5122\(12\)](#)

faith-based and community organizations, nonprofit groups, schools and academia, media outlets, all levels of government (including state, local, tribal, territorial, and federal partners).⁴⁹⁹

Wildfire: An uncontrolled fire spreading through vegetative fuels, exposing and possibly consuming structures.

Wildland urban interface: The zone of transition between unoccupied land and human development. It is the line, area or zone where structures and other human development meet or intermingle with undeveloped wildland or vegetative fuels.

Withdrawn subaward: A subaward for which federal funds have been allocated and obligated, but the recipient no longer wishes to complete the activity. A final claim letter will be sent to the recipient once the subaward is withdrawn and closed. Remaining funding must be de-obligated from the subaward.

⁴⁹⁹ [FEMA National Preparedness Goal](#) (Second Edition, September 2015) and the [FEMA National Mitigation Framework](#) (Second Edition, June 2016)

D. Authorizing Statutes and Regulations

Hazard mitigation activities must adhere to all relevant statutes, regulations and requirements, including:

- **Statutes:**

- **HMGP and HMGP Post Fire:** Section 404 of the [Robert T. Stafford Disaster Relief and Emergency Assistance Act](#) (Stafford Act), Public Law 100-707 (Nov. 23, 1988), as amended, [42 U.S.C. § 5170c](#).
- **BRIC:** Section 203 of the Stafford Act, [42 U.S.C. § 5133](#).
- **FMA:** Sections 1366 and 1367 of the [National Flood Insurance Act of 1968](#), Public Law 90-448 (Aug. 1, 1968), as amended, [42 U.S.C. § 4104c](#), [42 U.S.C. § 4104d](#).
- **Mitigation Planning:** Section 322 of the Stafford Act, [42 U.S.C. § 5165](#).
- **Management Costs:** Section 324 of the Stafford Act, [42 U.S.C. § 5165b](#).
- **Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970**, Public Law 91-646 (Jan. 2, 1971), as amended, [42 U.S.C. Chapter 61](#).
- **American Indian Religious Freedom Act of 1978**, Public Law 95-341 (Aug. 11, 1978), [42 U.S.C. § 1996](#).
- **Archeological and Historic Preservation Act of 1974**, Public Law 93-291 (May 24, 1974), [16 U.S.C. §§ 469 - 469c](#).
- **Archeological Resources Protection Act of 1979**, Public Law 96-95 (Oct. 31, 1979), [16 U.S.C. §§ 470aa - mm](#).
- **Clean Air Act Amendments of 1990**, Public Law 101-549 (Nov. 15, 1990), [42 U.S.C. Chapter 85](#).
- **Disaster Recovery Reform Act of 2018**, Division D, Public Law 115-254 (Oct. 5, 2018).
- **Federal Water Pollution Control Act (Clean Water Act)**, Public Law 92-500 (Oct. 18, 1972), [33 U.S.C. § 1251](#) et seq.
- **Sections 10 and 14 of the Rivers & Harbors Appropriation Act of 1899**; Chapter 425, 30 Stat. 1151 (March 3, 1899), [33 U.S.C. § 403](#) and [33 U.S.C. § 408](#), respectively.
- **Coastal Zone Management Act of 1972**, Public Law 92-583 (Oct. 27, 1972), [16 U.S.C. § 1451](#) et seq.

- [Coastal Barrier Resources Act of 1982](#), Public Law 97-348 (Oct. 18, 1982), [16 U.S.C. §§ 3501 - 3510](#).
- Endangered Species Act of 1973, Public Law 93–205 (Dec. 27, 1973), [16 U.S.C. § 1351](#) et seq.
- Farmland Protection Policy Act, Subtitle I of Title XV, Section 1539-1549 of the Agriculture and Food Act of 1981, Public Law 97-98 (Dec. 22, 1981), [7 U.S.C. Chapter 73](#).
- Fish and Wildlife Conservation Act, Public Law 96-366 (Sep. 29, 1980), [16 U.S.C. § 2901](#).
- National Environmental Policy Act, Public Law 91-190 (Jan. 1, 1970), [42 U.S.C. § 4321](#).
- National Historic Preservation Act, Public Law 89-665 (Oct. 15, 1966), [16 U.S.C. § 470](#).
- Native American Graves and Repatriation Act of 1990, Public Law 101-601, (Nov. 16, 1990), [25 U.S.C. §§ 3001 - 3013](#).
- Resource Conservation and Recovery Act, Public Law 94-580 (Oct. 21, 1976), [42 U.S.C. § 6901 et seq.](#)
- Wild and Scenic Rivers Act of 1968, Public Law 90-542 (Oct. 2, 1968), [16 U.S.C. § 1271 et seq.](#)
- Wilderness Act of 1964, Public Law 88–577 (Sep. 3, 1964), [16. U.S.C. §§ 1131 - 1136](#).
- Build America, Buy America Act, Public Law 117-58, §§ 70901-52 (Nov. 15, 2021),
- **Regulations and other governing documents:**
 - [2 CFR Part 200](#): *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (as adopted by the Department of Homeland Security at [2 CFR Part 3002](#)).
 - [36 CFR Part 800](#): *Protection of Historic Properties*.
 - [44 CFR Part 9](#): *Floodplain Management and Protection of Wetlands*.
 - [44 CFR Part 25](#): *Uniform Relocation Assistance and Real Property Acquisition for Federal and Federally Assisted Programs*.
 - [44 CFR Part 60](#): *Criteria for Land Management and Use*.
 - [44 CFR Part 77](#): *Flood Mitigation Grants*.
 - [44 CFR Part 80](#): *Property Acquisition and Relocation for Open Space*.
 - [44 CFR Part 201](#): *Mitigation Planning*.

- [44 CFR Part 206, Subpart J](#): *Coastal Barrier Resources Act*.
- [44 CFR Part 206, Subpart N](#): *Hazard Mitigation Grant Program*.
- [Federal Acquisition Regulation Subpart 31.2](#): *Contracts with Commercial Organizations*.
- **Executive Orders:**
 - [Executive Order 11988](#) on *Floodplain Management* (May 24, 1977).
 - [Executive Order 11990](#) on *Protection of Wetlands* (May 24, 1977).
 - [Executive Order 13007](#) on *Indian Sacred Sites* (May 24, 1996).
- [FEMA Directive 108-1](#), *Environmental Planning and Historic Preservation Responsibilities and Program Requirements* (Oct. 10, 2018).
- [OMB Circular A-94](#), *Guidelines and Discount Rates for Benefit-Cost Analysis of Federal Programs*.
- Other applicable federal, state, local, tribal and territory laws; implementing regulations; and executive orders.

Federal Laws Prohibiting Discrimination in Emergency Programs Based on Disability:

- Rehabilitation Act of 1973, Public Law 93-112 (Sep. 26, 1973).
- Americans with Disabilities Act of 1990, Public Law 101-336 (July 26, 1990).
- The Stafford Act, Public Law 100-707 (Nov. 23, 1988).
- Post-Katrina Emergency Management Reform Act of 2006, Public Law 109-295 (Oct. 4, 2006).
- Fair Housing Act Amendments of 1988, Public Law 100-430 (Sep. 13, 1988).
- Architectural Barriers Act of 1968, Public Law 90-480 (Aug. 12, 1968).
- Individuals with Disabilities Education Act of 1975, Public Law 101-476 (Oct. 30, 1990).
- Telecommunications Act of 1996, Public Law 104-104 (Feb. 8, 1996).
- Twenty-First Century Communications and Video Accessibility Act of 2010, Public Law 111-260 (Oct. 8, 2010).

E. HMGP Project Subapplication Minimum Eligibility Criteria Checklist

The purpose of the HMGP Project Subapplication Minimum Eligibility Criteria Checklist is to ensure that applications/subapplications submitted to FEMA contain the minimum criteria for eligibility. For additional project types not listed below, refer to [Part 11](#) (other than mitigation planning and planning-related activities) and [Part 12](#). For mitigation planning activities, refer to [Appendix F](#).

If an application/subapplication lacks the necessary eligibility information, FEMA cannot determine eligibility and approve an application. If information is lacking, FEMA may request additional information during the review process. Each requirement lists the section of the HMA Guide where more information can be found. The checklist below is intended as a helpful resource, and it is not a request for information.

Table 31: HMGP Project Subapplication Minimum Eligibility Criteria Checklist

Question	Yes	No	Notes
General Requirements			
Is necessary documentation included in the subapplication? (Part 6.B.2)			
Is this a phased project? (Part 4.D.3)			
Is technical assistance needed? The subapplicant is encouraged to contact the applicant to request application development assistance. FEMA resources may be available but will only be provided if requested by the applicant. (Part 4.D.1.5)			
Applicants and Subapplicants			
Is an eligible applicant identified? (states, federally recognized tribal governments and territories) (Part 4.A)			
Is an eligible subapplicant identified? (state agencies, local governments, federally recognized tribal governments and private nonprofit organizations) (Part 4.B)			
If applicable, does the applicant/subapplicant participate in the National Flood Insurance Program? (Part 4.H.4)			

Question	Yes	No	Notes
Hazard Mitigation Plan Update Requirements			
Does the applicant/subapplicant have a hazard mitigation plan? (Part 4.C)			
Is the proposed HMA project(s) in conformance with the State Mitigation Plan and Local or Tribal Mitigation Plan approved under 44 CFR Part 201? (Part 4.C.2.6 and Part 6.C)			
Scope of Work Requirements			
Does the scope of work describe the proposed activity, and is it an eligible project type? (Part 6.C.1)			
For construction projects, have alternatives been considered as part of the decision-making process and are they described? (Part 6.C.1.2)			
Are photographs of each structure and the general project area included? (Part 6.F.1)			
Is geographic information about the activity being scoped (and clearly labeled maps) included? (Part 6.F and Part 6.C.1.2)			
Is the latitude, longitude and address for each structure provided? (Part 6.C.1.2)			
Does the scope of work explain why the selected activity is the most practical, effective and environmentally sound option? (Part 6.C.1.2)			
Have long-term changes to the area been considered and has documentation regarding long-term maintenance been provided? (Part 6.C.1.2)			
Does the activity solve a problem independently or does it constitute a functional portion of a solution? (Part 4.D.2 and Part 4.G)			
Does the activity address a repetitive problem or significant risk to public health? ⁵⁰⁰			

⁵⁰⁰ [44 CFR § 206.434\(c\)\(5\)\(i\)](#).

Question	Yes	No	Notes
Schedule Requirements			
Does the schedule identify major milestones that reflect the scope of work and that do not exceed the period of performance of the award? (Part 6.C.2)			
Budget Requirements			
Has a budget and a budget narrative been provided that supports the scope of work? (Part 6.C.3)			
If the project requires phased or incremental funding, does the budget reflect the amount estimated for each funding increment? (Part 6.C.3.1)			
Have the non-federal cost share and match sources been identified? (Part 6.B.2 and Part 6.C.3)			
Does the project report the availability or receipt of duplicative grants, loans, insurance payments, legal claims, gifts or other payments pertaining to the property being mitigated using HMA (potential duplication of benefits such as insurance and Small Business Administration loans if information is available during project development)? (Part 4.L.8)			
Cost-Effectiveness and Feasibility Requirements			
Does the project include a benefit-cost analysis, alternate cost-effectiveness documentation (such as substantial damage verification and located in a riverine floodplain; pre-calculated benefits) or a narrative supporting cost effectiveness and request for consideration under 5% HMGP discretionary funding? (Part 5.B.3.6 and Part 6.D)			
Does the project include technical information to support the proposed action? (Part 6.E and Part 6.C.1.2)			
Environmental and Historic Preservation Requirements			
Does the project demonstrate conformance with environmental and historic preservation requirements? (Part 6.F.1)			

Question	Yes	No	Notes
Assurance Requirements			
Has the statement of assurances been provided? Assurances may vary for construction or non-construction activities. ⁵⁰¹ (Part 6.B.2)			
Has SF-LLL, Disclosure of Lobbying Activities, been provided? ⁵⁰² (Part 6.B.2)			
Mitigation Project Requirements			
The following sections outline the minimum eligibility criteria for project specific activities.			
Property Acquisition Requirements			
Does the project comply with the timelines and all other criteria set forth in 44 CFR Part 80, including the deed restriction language consistent with the <i>FEMA Model Deed Restriction</i> ? (Part 12.A.1)			
Does the project identify eligible activities such as: <ul style="list-style-type: none"> ▪ Acquisition and Relocation (Part 12.A.1)? ▪ Acquisition and Demolition (Part 12.A.1)? 			
If applicable, has documentation that the property owner is a national of the United States or a qualified alien been provided? (Part 12.A.1)			
Does the project include voluntary participation documentation for each property? (Part 12.A.2.2)			
For properties that are to be relocated, will the structure be relocated outside of the Special Flood Hazard Area? (Part 12.A.3.1)			
Structure Elevation Requirements			
Does the project identify the is or elevation required by FEMA or local ordinance? (Part 12.C.2)			
Does the project include finished floor elevation? <i>Elevation Certificate</i> (FF-206-FY-22-152) is preferred. (Part 12.C.2)			

⁵⁰¹ Available on grants.gov under the [SF-424 Family](#). The assurances may include SF-424A, Budget Information for Non-Construction; SF-424B, Assurances for Non-Construction; SF-424C, Budget Information for Construction; and SF-424D, Assurances for Construction

⁵⁰² Available on [grants.gov](#)

Question	Yes	No	Notes
Does the project include the proposed elevation height of the structure? (Part 12.C.2)			
Is the project designed and implemented consistent with latest ASCE-24 or equivalent? (Part 12.C.1.2.1)			
Flood Risk Reduction Requirements			
Does the project include initial technical information to support size, costs and local permitting requirements? (Part 12.E.2)			
Does the project describe how it will reduce flooding depths and damage and specify the level of protection provided? (Part 12.E.2)			
Safe Room Requirements			
Does the project include the population size and basis? (Part 12.H.1.2.1)			
Is the safe room project located outside of FEMA-designated SFHAs? Or, is the safe room project located in a FEMA-designated SFHA area (or the 500-year flood hazard area) but the 8-step Decision Process has successfully been completed for Executive Order (EO) 11988 on Floodplain Management (May 24, 1977), (i.e., the consultation with the local and state emergency management officials led to the conclusion that there is no other feasible option than having the safe room project sited in an SFHA or the 500-year flood hazard area, as outlined in FEMA P-361)? (Part 12.H.1.1)			
Is the safe room designed and implemented consistent with FEMA P-361? (Part 12.H.1.7)			
Wind Retrofit Requirements			
Does the project include the proposed level of protection? (Part 12.J.2.2)			
Has the project been designed and implemented consistent with P-804? (Part 12.J.1.5)			

Question	Yes	No	Notes
Secondary Power Source Requirements			
Does critical facility information include data such as the date the structure was built, building type and the functions provided, construction type and additional details relating to the existing condition of the structure? (Part 12.K.2)			

F. HMGP Planning Subapplication Minimum Eligibility Criteria Checklist

The purpose of the HMGP Planning Subapplication Minimum Eligibility Criteria Checklist is to ensure that applications/subapplications submitted to FEMA contain the minimum criteria for eligibility. For mitigation projects, refer to [Appendix E](#).

If an application/subapplication lacks the necessary eligibility information, FEMA cannot determine eligibility and approve an application. If information is lacking, FEMA may request additional information during the review process. Each requirement lists the section of the HMA Guide where more information can be found. The checklist below is intended as a helpful resource, and it is not a request for information.

Table 32: HMGP Planning Subapplication Minimum Eligibility Criteria Checklist

General Requirements			
Question	Yes	No	Notes
Is the subapplication number and title included? (Part 11.A.3.1)			
Applicants and Subapplicants			
Question	Yes	No	Notes
Is an eligible applicant identified? (states, federally recognized tribal governments and territories) (Part 4.A)			
Is an eligible subapplicant identified? (state agencies, local governments, federally recognized tribal governments and private nonprofit organizations) (Part 4.B)			
If the application/subapplication activity is for planning updates or planning related activities, does the applicant/subapplicant have a current mitigation plan? (Part 11.A.3.1 and Part 11.A.3.2)			
Scope of Work Requirements			
Question	Yes	No	Notes
Is the proposed mitigation planning activity, as described in the scope of work, eligible for the program and describes how the proposed activity			

aligns with the current mitigation plan? (Part 11.A.3.1)			
Is the proposed planning activity described, including whether it will result in a new or updated hazard mitigation plan or enhance an existing mitigation plan, in accordance with the FEMA mitigation planning regulation at 44 CFR Part 201 and HMA Guide? (Part 11.A.3.1)			
Are participating jurisdiction(s) and private nonprofits, if applicable, identified and described? (Part 11.A.3.1)			
Does the narrative describe procedures to engage stakeholders and participating jurisdictions? (Part 11.A.3.1)			
Does the scope of work discuss approaches, outcomes and level of effort, including key milestones and schedule and the relationship of each activity to the cost estimate? (Part 11.A.3.1)			
Hazard Mitigation Plan Update Requirements			
Question	Yes	No	Notes
Does the scope of work describe the process that each jurisdiction will complete to review each section of the previous plan and address gaps, as needed; new information (including hazard, land use and development trends); how the previous plan was implemented; and what process will be used? (Part 11.A.3.1)			
Schedule Requirements			
Question	Yes	No	Notes
Does the application include a work schedule within the period of performance and allow sufficient time for state or tribal and FEMA reviews; preparation of required revisions, if needed; formal adoption by the jurisdiction(s); and FEMA approval? (Part 11.A.3.1)			

Cost Review Requirements			
Question	Yes	No	Notes
Does the application include a detailed cost estimate that supports the scope of work and is reasonable for the jurisdiction(s) participating? Lump-sum cost estimates are not eligible and will not be accepted. (Part 11.A.3.3)			
Does the application or subapplication identify information on the required non-federal cost share and contribution sources? (Part 6.C.3.2)			

G. Changes Since Last Major Version

[Table 33](#) provides an overview of the changes FEMA incorporated into version 2.1 of the HMA Guide compared to the previous major version (version 2.0), which was released on July 30, 2024.

Table 33. Changes Since the Release of Version 2.0 of the HMA Guide

Location	Description
Universal	<ul style="list-style-type: none"> ▪ Edited language to ensure compliance with administration priorities. ▪ Removed references to rescinded Presidential Executive Orders. ▪ Corrected administrative errors. ▪ Updated and corrected citations throughout the document to reflect changes to both 2 CFR Part 200 and 44 CFR Part 206.
Part 1	<ul style="list-style-type: none"> ▪ Updated formatting.
Part 2	<ul style="list-style-type: none"> ▪ Edited language to ensure compliance with administration priorities. ▪ Noted the applicability of October 2024 revisions to 2 CFR Part 200.
Part 3	<ul style="list-style-type: none"> ▪ Edited language to ensure compliance with administration priorities. ▪ Noted the applicability of federal procurement regulations under 2 CFR Part 200. ▪ Made administrative language changes.
Part 4	<ul style="list-style-type: none"> ▪ Removed requirement to adhere to the Federal Flood Risk Management Standard via Executive Order 13690, per Executive Order 14148. ▪ Edited language regarding cost eligibility, conflicts of interest and procurement to reflect changes to 2 CFR Part 200, which were effective as of October 1, 2024. ▪ Updated environmental and historic preservation eligibility requirements to reflect currently in-force Presidential Executive Orders. ▪ Removed the eligibility of standalone extreme temperature and air quality projects.
Part 5	<ul style="list-style-type: none"> ▪ Removed section B.1.2 on “Benefit Cost Analysis Technical Assistance.”
Part 6	<ul style="list-style-type: none"> ▪ Edited language to ensure compliance with administration priorities. ▪ Edited language regarding HMGP application submission to ensure compliance with changes to 44 CFR Part 206. ▪ Updated environmental and historic preservation eligibility requirements to reflect currently in-force Presidential Executive Orders. ▪ Made administrative language changes.
Part 7	<ul style="list-style-type: none"> ▪ No changes.

Location	Description
Part 8	<ul style="list-style-type: none"> ▪ Edited language throughout Part 8 to ensure compliance with 2 CFR Part 200 changes. ▪ Made organizational changes to Section F in the budget and scope of work sections to combine information on non-construction and construction subaward changes based on 2 CFR Part 200 related edits. ▪ Made administrative language changes.
Part 9	<ul style="list-style-type: none"> ▪ Edited language throughout Part 9 to ensure compliance with 2 CFR Part 200 changes. ▪ Added Section A.3 to address significant developments that may affect award reporting based on information in 2 CFR Part 200. ▪ Made administrative language changes.
Part 10	<ul style="list-style-type: none"> ▪ Removed references to Executive Order 14008, Tackling the Climate Crisis at Home and Abroad. ▪ Edited language to ensure compliance with administration priorities. ▪ Edited language based on updates to 2 CFR Part 200, which were effective as of October 1, 2024. ▪ Updated the HMGP application period from 12 to 15 months, per updates to 44 CFR § 206.436. ▪ Updated the amount of days FEMA may extend the HMGP application period from 180 to 240 days, per updates to 44 CFR § 206.436. ▪ Noted that upon written request and justification from the applicant, FEMA may extend the submission timeline in 30- to 120-day increments not to exceed a total extension of 240 calendar days, for a total possible application period of 23 months, per updates to 44 CFR § 206.436. ▪ Added section A.10.1 and B.9.1 which provides circumstances in which FEMA may reopen the application period, per 44 CFR § 206.436. ▪ Updated the amount of days FEMA may extend the HMGP Post Fire application period from 180 to 240 days, per updates to 44 CFR § 206.436. ▪ Noted that upon written request and justification from the applicant, FEMA may extend the application submission timeline in 30- to 120-day increments not to exceed a total extension of 240 calendar days, for a total of 14 months after the end of the applicable fiscal year. ▪ Removed duplicative language. ▪ Corrected spelling errors. ▪ Made administrative language changes.

Location	Description
Part 11	<ul style="list-style-type: none"> ▪ Edited language to ensure compliance with administration priorities. ▪ Edited language based on updates to 2 CFR Part 200, which were effective as of October 1, 2024. ▪ Corrected spelling errors. ▪ Made administrative language changes.
Part 12	<ul style="list-style-type: none"> ▪ Edited language to ensure compliance with administration priorities. ▪ Removed requirement to adhere to the Federal Flood Risk Management Standard via Executive Order 13690, per Executive Order 14148. ▪ Edited language based on updates to 2 CFR Part 200, which were effective as of October 1, 2024. ▪ Removed nature-based solutions overview to reduce superfluous language and align with the spirit of the Executive Orders. ▪ Removed the eligibility of standalone extreme temperature and air quality projects.
Part 13	<ul style="list-style-type: none"> ▪ Edited language based on updates to 2 CFR Part 200, which were effective as of October 1, 2024. ▪ Corrected spelling errors.
Part 14	<ul style="list-style-type: none"> ▪ Edited language to ensure compliance with administration priorities. ▪ Edited language based on updates to 2 CFR Part 200, which were effective as of October 1, 2024. ▪ Corrected spelling errors.
Part 15	<ul style="list-style-type: none"> ▪ Updated the list of authorizing statutes and regulations to remove rescinded Presidential Executive Orders. ▪ Updated the glossary to reflect terms used throughout the document after edits were made based on administration priorities and updates to 2 CFR Part 200.