

Hurricane Wind Retrofit Technical Review

This job aid supplement covers requirements associated with the technical reviews for hurricane wind retrofit projects funded by Hazard Mitigation Assistance. FEMA will also conduct an Environmental Planning and Historic Preservation review of each project. Refer to the Hurricane Wind Retrofit: Information Required for Environmental Review Job Aid.

This Technical Review Supplement provides additional information, examples and potential sources of documentation for items in the job aid to help communities applying for Hazard Mitigation Assistance grants comply with application requirements.

- All Hazard Mitigation Assistance (HMA) applications must comply with the requirements outlined in the HMA Guidance.
- According to the guidance, in addition to a general programmatic review, an EHP review and a technical review will be performed by FEMA for each proposed project.
- The technical review will verify that a project demonstrates feasibility, effectiveness and cost-effectiveness. The document is intended for technical reviews of applications only.
- For assistance completing EHP compliance reviews, see the EHP Supplement Job Aids.

Introduction

The following provides a review of the information that should be provided with the grant application, including recommended documentation and a list of supplemental information, to assist FEMA when conducting technical reviews of the project application. Technical resources are identified throughout this supplement to provide clarifying information on specific project application components. The final section provides a comprehensive list of resources identified throughout this supplement.

It is recommended that the grant applicant consult a professional engineer to assist in preparing the application, as many of the documentation requirements for hurricane wind retrofit applications are technical in nature. An engineer will be required for the initial hurricane retrofit building assessment, design and implementation. For complex hurricane wind retrofit projects, applicants may want to consider Advanced Assistance or a phased project approach (phasing is allowable for Hazard Mitigation Grant Program [HMGP] and Building Resilient Infrastructure Communities [BRIC] projects only). Initial funds can be obtained (Advanced Assistance or Phase 1) to produce a detailed design of the project for further FEMA review and approval (Phase 2 or HMGP Application Development). Refer to HMA Guidance, Part VIII, A.1.2 and A.1.3 for additional advanced assistance and phased project requirements and guidance.

The project-specific guidance in this supplement does not provide all the information necessary to apply for funding through an HMA program and must be read in conjunction with all other relevant guidance documents.

Hurricane Retrofit Mitigation Manual

**National Flood Proofing Committee
(U.S.)**



Hurricane Retrofit Mitigation Manual:

Home Builder's guide to coastal construction Federal Emergency Management Agency, 2012-10-15 NOTE NO FURTHER DISCOUNT FOR THIS PRINT PRODUCT OVERSTOCK SALE Significantly reduced list price FEMA produced this series of 37 fact sheets to provide technical guidance and recommendations concerning the construction of coastal residential buildings The fact sheets present information aimed at improving the performance of buildings subject to flood and wind forces in coastal environments Photographs and drawings illustrate National Flood Insurance Program NFIP regulatory requirements the proper siting of coastal buildings and recommended design and construction practices for building components including structural connections the building envelope and utilities Many of the fact sheets also include lists of FEMA and other resources that provide more information about the topics discussed Where appropriate resources are accompanied by active web links A list of the individual fact sheets that are contained in FEMA P 499 follows

Category 1

General Fact Sheet No 1 1 Coastal Building Successes and Failures Fact Sheet No 1 2 Summary of Coastal Construction Requirements and Recommendations Fact Sheet No 1 3 Using a Flood Insurance Rate Map FIRM Fact Sheet No 1 4 Lowest Floor Elevation Fact Sheet No 1 5 V Zone Design and Construction Certification Fact Sheet No 1 6 Designing for Flood Levels Above the BFE Fact Sheet No 1 7 Coastal Building Materials Fact Sheet No 1 8 Non Traditional Building Materials and Systems Fact Sheet No 1 9 Moisture Barrier Systems

Category 2 Planning Fact Sheet No 2 1 How Do Siting and Design Decisions Affect the Owner's Costs Fact Sheet No 2 2 Selecting a Lot and Siting the Building

Category 3 Foundations Fact Sheet No 3 1 Foundations in Coastal Areas Fact Sheet No 3 2 Pile Installation Fact Sheet No 3 3 Wood Pile to Beam Connections Fact Sheet No 3 4 Reinforced Masonry Pier Construction Fact Sheet No 3 5 Foundation Walls

Category 4 Load Paths Fact Sheet No 4 1 Load Paths Fact Sheet No 4 2 Masonry Details Fact Sheet No 4 3 Use of Connectors and Brackets

Category 5 Wall Systems Fact Sheet No 5 1 Housewrap Fact Sheet No 5 2 Roof to Wall and Deck to Wall Flashing Fact Sheet No 5 3 Siding Installation in High Wind Regions Fact Sheet No 5 4 Attachment of Brick Veneer in High Wind Regions

Category 6 Openings Fact Sheet No 6 1 Window and Door Installation Fact Sheet No 6 2 Protection of Openings Shutters and Glazing

Category 7 Roofing Fact Sheet No 7 1 Roof Sheathing Installation Fact Sheet No 7 2 Roof Underlayment for Asphalt Shingle Roofs Fact Sheet No 7 3 Asphalt Shingle Roofing for High Wind Regions Fact Sheet No 7 4 Tile Roofing for High Wind Areas Fact Sheet No 7 5 Minimizing Water Intrusion through Roof Vents in High Wind Regions Fact Sheet No 7 6 Metal Roof Systems in High Wind Regions

Category 8 Attachments Fact Sheet No 8 1 Enclosures and Breakaway Walls Fact Sheet No 8 2 Decks Pools and Accessory Structures Fact Sheet No 8 3 Protecting Utilities

Category 9 Repairs Fact Sheet No 9 1 Repairs Remodeling Additions and Retrofitting Flood Fact Sheet No 9 2 Repairs Remodeling Additions and Retrofitting Wind

Category G Guide Fact Sheet No G 1 Technical Fact Sheet Guide Fact Sheet No G 2 References and Resources

Optimal Strategies for Disaster and Hazard Mitigation Stuart Reid, Mark Stewart, 2007 IFED is sponsored and organized by the Five

University Consortium on Uncertainty Risk and Decision Making in Engineering Forums are held every 12 18 months to provide an opportunity to share exciting developments and to stimulate new initiatives in engineering decision making and risk analysis for engineering systems

Coastal Construction Manual ,2005 **Coastal Construction Manual, Vol. 1, Principles and Practices of Planning, Siting, Designing, Constructing, and Maintaining Buildings in Coastal Areas, Edition 3, August 2005** ,2009 **Multi Hazard Identification and Risk Assessment** ,1997 *Flood Proofing Techniques, Programs, and References* National Flood Proofing Committee (U.S.),2000 Natural Hazard Mitigation David Godschalk,1999 Natural Hazard Mitigation describes and analyzes the way that hazard mitigation has been carried out in the United States under our national disaster law the Robert T Stafford Disaster Relief and Emergency Assistance Act The book is an informative and eye opening examination for planners policymakers students of planning and geography and professionals working for government agencies that deal with natural hazards Rapid Visual Screening of Buildings for Potential Seismic Hazards : a Handbook Federal Emergency Management Agency (U.S.),2017-08-03 The Rapid Visual Screening RVS handbook can be used by trained personnel to identify inventory and screen buildings that are potentially seismically vulnerable The RVS procedure comprises a method and several forms that help users to quickly identify inventory and score buildings according to the risk of collapse if hit by major earthquakes This third edition includes extensive updates including Update of the Basic Scores and Score Modifiers Update of the ground motion definitions Preparation of additional reference guides Inclusion of additional building types that are prevalent Inclusion of additional considerations such as nonstructural hazards existing retrofits building additions and adjacency Addition of an optional electronic scoring methodology and more Related products Natural Environmental Disasters resources collection is available here [https://bookstore.gpo.gov/catalog/natural environmental disasters](https://bookstore.gpo.gov/catalog/natural%20environmental%20disasters) Other products produced by the U S Department of Homeland Security Federal Emergency Management Administration FEMA are available here [https://bookstore.gpo.gov/agency/federal emergency management agency fema](https://bookstore.gpo.gov/agency/federal%20emergency%20management%20agency/fema) Emergency Preparedness U.S.A. ,2000 **Disasters, Preparedness and Mitigation in the Americas** ,2002

Decoding **Hurricane Retrofit Mitigation Manual**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Hurricane Retrofit Mitigation Manual**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

<https://staging.conocer.cide.edu/public/scholarship/HomePages/final%202013%20study%20guide%20earth%20science.pdf>

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