

SC Office of Resilience

Incorporating Mitigation & Climate Resilience
in
DR Activities

How SCOR Defines Resilience

Resilience: The ability of communities, economies, and ecosystems within South Carolina to **anticipate, absorb, recover, and thrive** when presented with environmental change and natural hazards.

What We Do

- **Disaster Recovery**
 - **Focused on Low to Moderate Income (LMI) citizens**
 - **Focused on Rehab, Replacement, and Reconstruction of storm-damaged homes**
 - **Buyouts**
- **Mitigation**
 - **Infrastructure**
 - **Buyouts**
 - **Matching funds**
 - **Plans and Studies**
- **Resilience**
 - **Statewide Resilience Plan**
 - **Identify knowledge/data gaps**
 - **Identify projects which will make SC more resilient**

Current Mitigation and Resilience in Disaster Recovery

- **Elevated Reconstructions and Manufactured Housing Units**
 - Elevate to base flood elevation (BFE) plus 2 feet of freeboard (1 county is +3')
 - Engineered plans and foundations
 - Elevated utility platforms (HVAC condenser units)



Current Mitigation and Resilience in Disaster Recovery

- **Soil remediation**
 - **Soil inspection**
 - **Discovery of unsuitable soil**
 - **Engineered plan**
 - **Removal of unsuitable soil**
 - **Replacement with good soil (lifts monitored by engineer)**
- **Impact windows instead of hurricane shutters**
 - **Installed when required by code for elevated homes**
 - **Shutters and plywood can be difficult to operate and/or install for some**

Current Mitigation and Resilience in Disaster Recovery

- **Buyouts**
 - Identification through DR applicants and local governments
 - Fair market value + incentives
 - Removing citizens from danger of repetitive floods
 - Land cannot be developed in perpetuity – could be a park, retention pond
 - Voluntary

Current Mitigation and Resilience in Disaster Recovery

- **Energy Efficiency Standards**

- **Energy Star**
- **Light fixtures**
- **Appliances**

- **Enhanced Roofs**

- **Architectural shingles vs. three-tab**
- **Rated to withstand minimum 130 MPH winds minimum**
- **6-nail pattern in coastal counties**
- **Ice and water shield for all valleys and low-pitched roofs (lower than 4/12)**

Future Mitigation and Resilience in Disaster Recovery

- **Elevated Reconstructions and Manufactured Housing Units**
 - **Increase elevation to BFE + 3 feet for all elevations in all counties**
- **Enhanced Roofs**
 - **Roof decking installed with 8d ring-shank nails, every 6"**
 - **Sealed roof deck on every home**
 - *Protects against water intrusion from wind driven rain, damaged shingles, ice dams*
 - *Self-adhesive membrane, taped seams with #30 felt, or 2 layers of #30 felt*
 - *Hurricane clips on all decking, where appropriate*
 - **Shingles installed with six nail pattern on all homes**
- **Impact windows instead of hurricane shutters**
 - **All homes located in 9 coastal counties (in general, east of I-95)**
- **Roof-to-wall Connections**
 - **Exploring ways to strengthen above hurricane truss straps**

Future Mitigation and Resilience in Disaster Recovery

- **Exploring IBHS Fortified Home**
 - Mentioned in the CDBG-DR Consolidated Notice Guidebook
 - Facility visited by SCOR teams – located in Chester County, SC
 - Home insurance may be reduced
- **Land Acquisition**
 - Identifying floodplain land to purchase (prevent development)
- **Building Codes, Zoning, Land Use**
 - Working with local municipalities to change standards
 - Resilience Team working with other agencies and NGOs
- **Exploring Green & Resilient Building Standards**
 - LEED
 - ICC-700

Questions?

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