

**APPENDIX 1**  
**(SOUTH CAROLINA HURRICANE PLAN)**  
**TO THE SOUTH CAROLINA EMERGENCY OPERATIONS PLAN**

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**I. INTRODUCTION**

- A. This plan follows state and federal regulations requiring a posture of preparedness for any emergency or disaster, including tropical cyclones, which South Carolina is at a high risk of experiencing each year.
- B. The term ‘tropical cyclone’ includes tropical depressions, tropical storms, and hurricanes. These types of tropical cyclones are differentiated by the strength of their sustained winds.

**II. PURPOSE**

- A. Prevent or minimize injury to people, damage to property, and environmental impacts resulting from a tropical cyclone.
- B. Plan and coordinate state and local resources for warning, evacuating, and sheltering South Carolina citizens and visitors.

**III. SCOPE**

- A. The South Carolina Hurricane Plan addresses operations to be conducted in coordination with the South Carolina Emergency Operations Plan (SCEOP) and South Carolina Recovery Plan (Appendix 6 to the SCEOP).
- B. Establishes specific roles and responsibilities for state and county agencies unique to tropical cyclone preparedness, response, reentry, and recovery.
- C. Covers relevant terminology, the utilization of the Hurricane Evacuation Study, and the evacuation planning timeline.

**IV. FACTS AND ASSUMPTIONS**

- A. Facts
  - 1. Tropical cyclones pose a significant threat to South Carolina.
  - 2. There have been 42 recorded South Carolina tropical cyclone landfalls since 1851. 26 were hurricanes, 11 were tropical/sub-tropical storms, and 5 were tropical depressions. 3 major (Category 3+) hurricanes have made landfall in South Carolina: Hazel (1954), Gracie (1959), and Hugo (1989). There are no Category 5 impacts to South Carolina on record.
  - 3. South Carolina has also been impacted by tropical cyclones that did not make landfall in South Carolina. Recently, Hurricane Irma (2017), Hurricane Florence (2018), and Hurricane Dorian (2019) caused impacts

that justified a coastal evacuation despite not making landfall in South Carolina.

4. South Carolina has over 200 miles of coast along the Atlantic Ocean split among six coastal counties: Beaufort, Charleston, Colleton, Georgetown, Horry, and Jasper.
5. South Carolina typically has a lead time of several days prior to a tropical cyclone impacting the state. However, there is the potential for tropical cyclones to form with much less notice, such as in 2004 when Hurricane Gaston generated 140 miles of the South Carolina coast and increased in severity from a tropical depression to a Category 1 hurricane in 48 hours.

**B. Assumptions**

1. The state and counties will use all available lead-time to prepare plans, protocols, and procedures predefined and coordinated in this and other plans. State agencies, county and municipal governments, and other entities will support preparations for tropical cyclones.
2. Mutual Aid Compacts and agreements will enable assistance in the areas of personnel, equipment, and logistics; state-to-state, county-to-county, and municipality-to-municipality. Federal support may be available pre-storm and during recovery if South Carolina receives a presidential disaster declaration.
3. For many of the preparedness and response actions, South Carolina will be under a State of Emergency.
4. The Governor may order evacuations based upon the forecasted path and impacts of the tropical cyclone.
5. The response capabilities of local jurisdictions may be overwhelmed. Local first responders may be among those affected, impacting their ability to perform their duties.
6. A tropical cyclone may result in large numbers of casualties and/or displaced persons that can quickly overwhelm local and state capabilities. Large numbers of people may be left temporarily or permanently without housing and will require long-term housing assistance.
7. Federal resources may not be available to provide significant lifesaving or life-sustaining capabilities until after the event.
8. Environmental health conditions may be negatively affected.
9. Local emergency response, medical, and public health capabilities will be impacted.

10. A tropical cyclone affecting South Carolina may have significant impacts on evacuations, housing, transportation, search and rescue, and law enforcement in other states.
11. In a tropical cyclone, the response will follow a prescribed process.
  - a. The local jurisdiction will establish an initial response utilizing the Incident Command System (ICS) to control and direct the first response.
  - b. The State will coordinate support for local and regional resources.

## **V. SITUATION**

- A. According to South Carolina's 2023 Hazard Mitigation Plan, the entire state has the potential to experience the effects of tropical cyclones, with the greatest hazard potential present along the immediate coast.
- B. The potential to be impacted by a tropical cyclone each year is high. The South Carolina State Climatology Office notes that there is an 86% chance of being impacted by a tropical system in any given year. Based on the period 1851 – 2023, the Climatology Office also notes that:
  1. 286 tropical cyclones or tropical cyclone remnants have impacted the state
  2. 133 storm centers have tracked through the state
  3. 44 tropical cyclones have made landfall along the SC coast
  4. 25 of those landfalls were hurricane strength
  5. 5 storms have brought major (Category 3+) hurricane impacts to the state, with 4 of those being SC landfalls
- C. South Carolina is most likely to be impacted by a tropical cyclone in August or September, which aligns with the statistical peak of hurricane season (June 1 to November 30).
- D. South Carolina must prepare for storms to impact the state from any direction. A storm does not have to make a direct landfall in South Carolina to have devastating impacts.
  1. Storms that originate in the Gulf of Mexico or track westward past Cuba and the southern tip of Florida can impact South Carolina's inland areas by following an inland track through the Southeast. In 2004, Hurricane Frances followed an inland track and spawned tornadoes throughout South Carolina.

2. Storms that remain offshore and follow a ‘coastal runner’ type of track may still cause impacts significant enough to warrant a coastal evacuation. For example, Hurricane Dorian (2019) remained offshore, but caused a full-coast evacuation in South Carolina.
  3. Storms that make landfall in other states may cause devastating impacts in South Carolina. For example, Hurricane Florence made landfall in North Carolina in 2018, but caused devastating flooding. Additionally, Hurricane Irma made landfall in Florida in 2017, but caused significant storm surge in South Carolina.
- E. The National Hurricane Center (NHC) uses the Saffir-Simpson Hurricane Wind Scale to categorize hurricane intensity based on sustained wind speed. Storm surge inundation, rainfall, and barometric pressure are *not* directly associated with the Saffir-Simpson Scale. The categories are:
1. Category 1: Some Damage, Winds: 74 – 95 mph
  2. Category 2: Extensive Damage, Winds: 96 – 110 mph
  3. Category 3: Devastating Damage, Winds: 111 – 129 mph
  4. Category 4: Catastrophic Damage, Winds: 130 – 156 mph
  5. Category 5: Catastrophic Damage, Winds: Greater than 157 mph
- F. Tropical cyclones can cause a variety of hazards, some of which can occur far outside coastal areas.
1. Storm Surge
    - a. Storm surge is the abnormal rise of water generated by a storm and is expressed in terms of height above ground in feet.
    - b. Historically, storm surge has posed the greatest threat to life and property in a tropical cyclone.
    - c. Eight South Carolina counties have evacuation zones that are closely designed around their storm surge risk:
      - (1) Horry
      - (2) Georgetown
      - (3) Charleston
      - (4) Berkeley
      - (5) Dorchester

- (6) Colleton
  - (7) Beaufort
  - (8) Jasper
  - d. The storm surge inundation risk for a given area depends heavily on the shape and elevation of the area's coastline. The storm surge inundation forecast for any particular storm depends on the storm's intensity, forward speed, wind radius, central pressure, and angle of approach to the coast.
  - e. The severity of storm surge caused by a particular tropical cyclone is **not** solely dependent on storm category, nor does it provide any information about the rainfall or freshwater flood risk posed by a storm.
  - f. Reference the South Carolina Hurricane Evacuation Study for more information on an area's storm surge risk.
2. Heavy Precipitation and Flooding
- a. Tropical cyclones can bring significant rainfall to an area, causing both flash flooding and freshwater/river flooding.
    - (1) For more information on how the state would respond to a river flooding threat, reference Appendix 19 of the SCEOP (South Carolina Flood Response Plan).
  - b. Recently, flooding from heavy rain has been the leading cause of hurricane related deaths. According to NOAA, the combination of storm surge inundation and inland flooding accounts for nearly 90% of all fatalities associated with tropical cyclones in the United States.
  - c. Flooding impacts from a tropical cyclone are not dependent on the category of the storm.
3. Wind
- a. Hurricane category is determined by a storm's sustained winds.
  - b. High winds can damage or destroy buildings, mobile homes, and other property. High winds can also cause injury and/or death.
  - c. Residents in mobile or manufactured homes are more vulnerable to high winds than those living in permanent structures.
4. Tornadoes

- a. Tropical cyclones have the ability to spawn tornadoes. These are primarily seen in the northeastern quadrant of a given tropical cyclone.
  - b. Tornadoes can damage or destroy buildings, mobile homes, and other property. They can also result in injury and/or death.
  - c. Tornadoes spawned by tropical cyclones are typically rated lower in EF-scale and are typically shorter-lived than those caused by other weather systems.
- G. South Carolina is experiencing dramatic population growth throughout the state, with some of the most significant increases in population density found along the immediate coastline. The greater the population density in these low-lying areas, the greater the state's overall tropical cyclone vulnerability and potential traffic congestion during a large-scale evacuation.

## **VI. HURRICANE EVACUATION STUDY**

A. The 2024 South Carolina Hurricane Evacuation Study (HES) was prepared by SCEMD with support from the National Hurricane Program. The HES establishes a foundation of information with which to utilize for the update and development of the South Carolina Hurricane Plan. The HES is a widely used and recognized reference tool for states at risk of tropical cyclone impacts. There are five key components of the HES. Summaries of each component are provided below:

### **1. Hazard Analysis**

- a. Explores the hurricane hazards that South Carolina can experience from a tropical cyclone to include wind, riverine flooding, tornadoes, and storm surge.
- b. Maps and examines the recent Sea, Lake, and Overland Surge from Hurricanes (SLOSH) model output of storm surge inundation estimates including directional models and worst-case models.
- c. Outlines the new evacuation zones for coastal South Carolina and clarifies the criteria used to guide evacuation zone creation.

Detailed descriptions of the hurricane evacuation zone criteria and zones are located in Annex C (Evacuation Zones and Clearance Timing).

### **2. Vulnerability Analysis**

- a. Identifies areas, populations, and critical infrastructure vulnerable to storm surge and freshwater flooding.

- b. Examines the social vulnerability and overall hurricane vulnerability throughout the study area, identifying key areas with highest overall vulnerability.
3. Behavioral Analysis
- a. Compiles hurricane evacuation behavior information from academic sources to contribute to the understanding of hurricane evacuation within the state.
  - b. Summarizes the results of the 2023 hurricane evacuation behavioral survey that was conducted in the eight counties containing evacuation zones. Over 3,000 responses were collected.
    - (1) The behavioral survey asked respondents about their previous tropical cyclone experience, risk perception, and anticipated evacuation behavior for future tropical cyclones.
    - (2) Key Findings:
      - (a) Approximately 43% of people do not know their evacuation zone.
      - (b) 12.35% of people plan to never evacuate under any circumstances.
      - (c) Citizens focus most heavily on hurricane category when they make evacuation decisions rather than focusing on storm surge risk, which is the primary reason for ordering hurricane evacuations.
      - (d) 49.61% of people plan to evacuate for major hurricanes, whereas less than 10% of people plan to evacuate for Category 1 or 2 hurricanes.
      - (e) 67.33% of people are more likely to evacuate if the Governor orders it.
      - (f) 40.91% of people only plan to evacuate if a direct SC landfall is in the forecast.
      - (g) Roughly 4 – 6% of people plan to utilize public evacuation shelters when evacuating for a storm.
      - (h) Approximately 2 – 6% of people would potentially need transportation assistance evacuating.

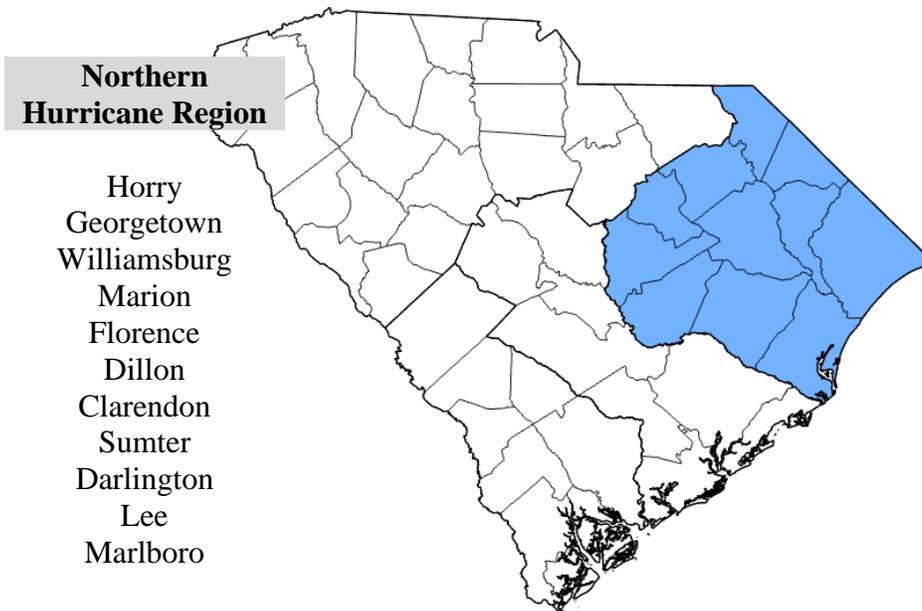
4. Shelter Analysis
  - a. Utilizes data from the Behavioral Analysis to estimate the population that will seek shelter within each evacuation zone.
  - b. Examines the storm surge vulnerability of every identified shelter location to verify its potential use.
5. Transportation Analysis
  - a. Outlines over 150 evacuation scenarios based on the following variables:
    - (1) Overnight Visitor Occupancy Level
    - (2) Lane Reversal
    - (3) Expected Resident Evacuation Compliance
  - b. Models evacuation clearance times for every evacuation scenario. Evacuation clearance times are expressed as a number of hours that would be required to evacuate for a given scenario.
  - c. Identifies congestion points for traffic planning.
  - d. See Annex B (Critical Transportation Needs) for more information on mass transportation planning.
  - e. See Annex C (Evacuation Zones and Clearance Timing) for more information on Transportation Analysis scenario variables and clearance time outcomes.

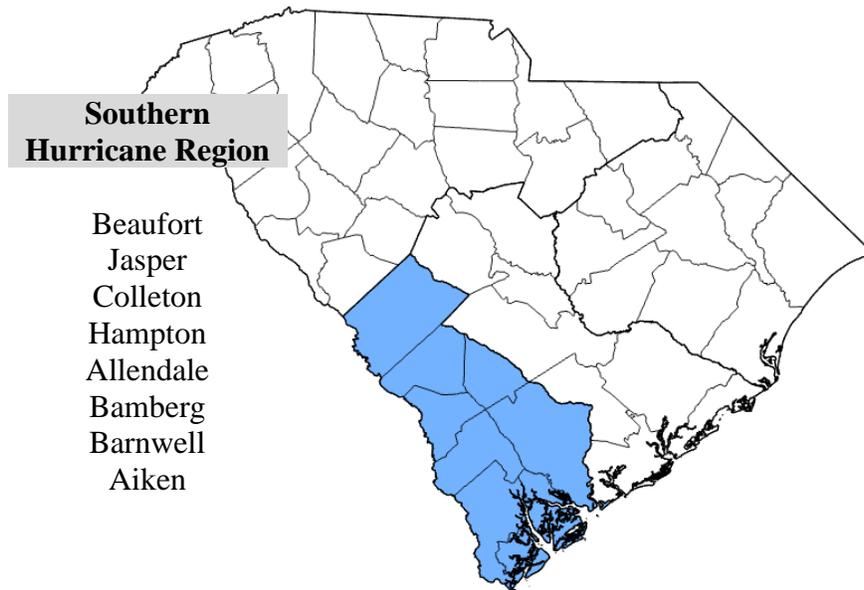
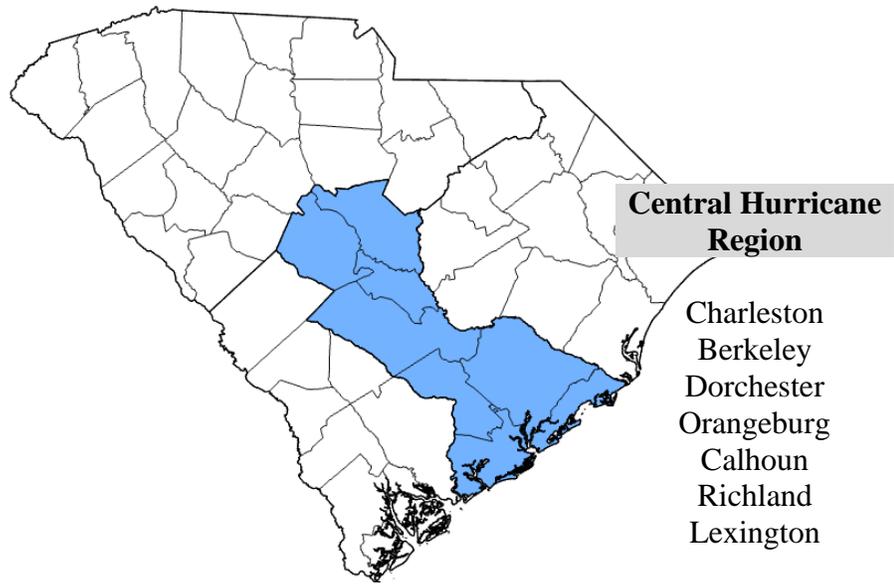
## **VII. CONCEPT OF OPERATIONS**

- A. General
  1. Hurricane preparedness and mitigation efforts occur throughout the year.
  2. South Carolina Emergency Management Division (SCEMD) is the primary agency for coordination during tropical cyclones.
- B. Plan Activation
  1. Activation of this plan is tied to the OPCON level of the State Emergency Operations Center (SEOC).
  2. The SCEOP, along with this plan, will be activated when the SEOC moves to OPCON 2.

C. Hurricane Regions

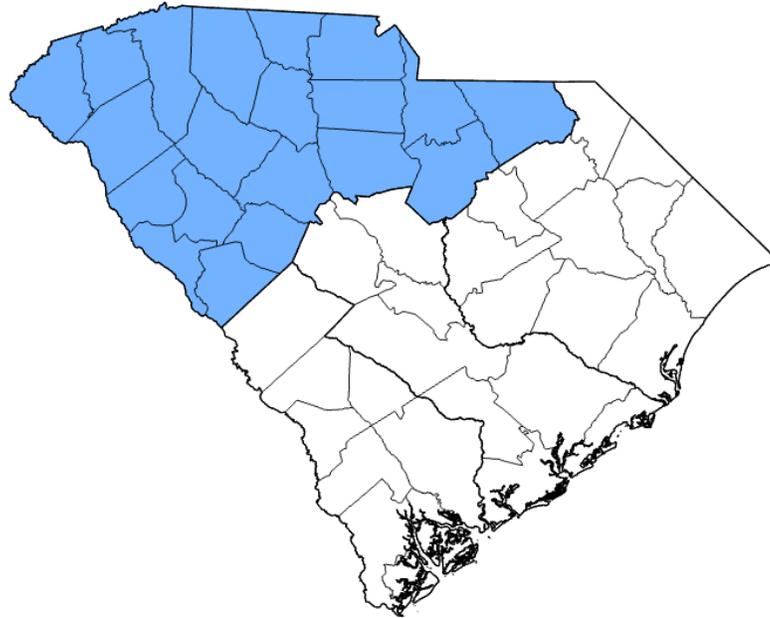
1. State and county emergency management utilize a regional approach to better prepare for, respond to, and recover from tropical cyclones.
2. With this regional approach, the state is organized into four hurricane regions: Northern, Central, Southern, and Western. Each county within a hurricane region relies on the other counties in their hurricane region to assist in protecting, evacuating, sheltering, and returning its citizens from hurricane evacuations. Additionally, evacuation routes are facilitated at the state level corresponding with these regions. Maps depicting the regions are provided below.





**Western Hurricane  
Region**

Abbeville  
Anderson  
Cherokee  
Chester  
Chesterfield  
Edgefield  
Fairfield  
Greenwood  
Greenville  
Kershaw  
Lancaster  
Laurens  
McCormick  
Newberry  
Oconee  
Pickens  
Saluda  
Spartanburg  
Union  
York



3. The SEOC may deploy Regional Emergency Managers (REMs) to county EOCs in the area of greatest concern.

D. Regional Coordination

1. SCEMD will coordinate with neighboring states to include Georgia, Florida, and North Carolina.
2. During a multi-state evacuation, the FEMA Evacuation Liaison Team (ELT) will coordinate evacuation conference calls. The ELT supports regional hurricane evacuation efforts by facilitating coordination among the impacted states.
3. The FEMA Hurricane Liaison Team (HLT) will deploy to the National Hurricane Center. The HLT provides information to SCEMD directly from the National Hurricane Center.
4. Evacuation and Lane Reversal
  - a. In conjunction with the Counties and State Emergency Response Team (SERT), an evacuation may be recommended to the Governor.

- b. An evacuation may be conducted with or without a lane reversal along specified evacuation routes.
- c. Evacuation activities will be a joint effort of state and local agencies. ESF-16 (Emergency Traffic Management) will coordinate the evacuation, monitor evacuation status, and recommend actions regarding evacuation.
- d. In the hours prior to an Evacuation Order being announced by the Governor, SCEMD, ESF-16, ESF-1 (Transportation), and the coastal counties will convene to determine a recommendation on lane reversals for the Governor. This recommendation will be based on the following factors:
  - (1) Traffic numbers leaving Florida and Georgia
  - (2) Historical SC traffic on evacuation date
  - (3) Current estimated occupancy rate for overnight visitors in the state
  - (4) Evacuation zones/total population being ordered to evacuate within the Governor's Order
  - (5) Expected evacuation compliance

### **VIII. DISASTER INTELLIGENCE AND COMMUNICATIONS**

- A. See the SCEOP, Section VIII (Disaster Intelligence and Communications), which describes the processes the State uses to acquire, coordinate, and disseminate disaster information.
- B. See Annex D (Public Information) for the process that the State uses to plan for, collect, coordinate, and disseminate hurricane specific information.
- C. See Attachment E of the SCEOP for information regarding the Disaster Intelligence Group (DIG).
- D. Conference Calls and Briefings
  - 1. The SEOC will schedule conference calls with the Counties and SERT as early as 120 hours prior to an evacuation (E-120). Conference calls will continue as needed.
    - a. Format for calls:
      - (1) Opening comments from the SCEMD Director.

- (2) National Weather Service (NWS) Columbia (other local NWS offices as necessary) will brief the latest forecast and current conditions. NHC may also be on the call.
  - (3) SCEMD Disaster Intelligence Group (DIG) products will be briefed. These products include, but are not limited to, planning scenarios, evacuation timelines, and wind timing reports.
  - (4) SCEMD Chiefs will brief key section actions.
  - (5) SERT will brief key agency actions.
  - (6) County Directors will report anticipated resource requests, potential shortfalls, suggested response actions, and transportation compliance spreadsheets (if required).
  - (7) The SCEMD Director will discuss decisions and recommendations that will be provided to the Governor, such as evacuation decision or reentry status.
- b. If needed, there will be a conference call with the counties at highest risk (based on the forecast) to discuss specific evacuation operations once the evacuation zones are determined.
2. Executive Group conference calls and decision briefings will be held as requested by the Governor.
- a. Format for the calls:
- (1) NWS Columbia will brief the latest forecast and current conditions. NHC may also be on the call.
  - (2) SCEMD DIG products will be briefed. These products include, but are not limited to, planning scenarios, evacuation timelines, and wind timing reports.
  - (3) The state agency directors will provide status of agency operations.
  - (4) The SCEMD Director will make recommendations to the Governor.
  - (5) The SEOC will coordinate with county EOCs prior to press conferences or press releases.

E. Lifeline Sector Analysis

The table below lists possible impacts to the state’s lifeline sectors associated with a tropical cyclone event. While not all-inclusive, this list assists the SERT’s ability to respond effectively by proactively identifying possible areas of concern before impacts occur.

Lifeline	Scope of Possible Impacts
 <p data-bbox="315 590 412 642">Safety and Security</p>	<ul data-bbox="597 422 1421 709" style="list-style-type: none"> <li>• Evacuation of coastal communities may be required for community safety.</li> <li>• Response personnel may need to support evacuation and search and rescue activities.</li> <li>• Responders may see increased calls for assistance.</li> <li>• Response and emergency management agencies may see extended operating/shift periods, and specialized equipment or training may be required.</li> </ul>
 <p data-bbox="285 1003 443 1056">Food, Hydration, Shelter</p>	<ul data-bbox="597 724 1421 1234" style="list-style-type: none"> <li>• Food retailers may be damaged, without power, or inaccessible.</li> <li>• Search and rescue activities may be necessary for livestock in impacted areas.</li> <li>• Extended power outages could disrupt food processing and distribution operations.</li> <li>• Initial impacts of wind and power outages and longer-term damage to the state’s housing stock may call for a large-scale sheltering mission.</li> <li>• Agricultural supply chain impacts may occur due to high winds, heavy rainfall, or flooding during and after a tropical cyclone event.</li> <li>• Power outage may cause food spoilage, further impacting the supply chain and economy.</li> </ul>
 <p data-bbox="315 1566 412 1619">Health and Medical</p>	<ul data-bbox="597 1249 1421 1829" style="list-style-type: none"> <li>• Mandatory evacuation of medical facilities pre-storm may be required depending on storm forecast and potentially cause impacts to the EMS supply for non-evacuation-related operations.</li> <li>• Healthcare facilities, particularly in or near coastal or low-lying areas, may be damaged or made inaccessible by high winds, storm surge, or flooding and may be affected by power or communication outages.</li> <li>• Hospitals may see an increased number of patients seeking care.</li> <li>• Electricity-dependent populations may face challenges with extended power loss.</li> <li>• Veterinary medical services may experience significant local impacts depending on the extent of the event.</li> <li>• Public health impacts from contaminated water are possible due to power outages and flooding.</li> </ul>

	<ul style="list-style-type: none"> <li>• Staffing shortages at medical facilities are possible due to staff personal losses and impacts from the event.</li> <li>• In a higher-fatality tropical event, additional locations for the storage of decedents may be required.</li> </ul>
	<ul style="list-style-type: none"> <li>• High wind, storm surge, and flooding may damage power generation, transmission, or distribution facilities, equipment, or systems.</li> <li>• Fuel stations may be damaged, inaccessible, or without power, causing additional challenges for responders.</li> <li>• Control systems may be affected by power or communication outages.</li> <li>• Generator dependencies for continuity of power may lead to a shortage in generator or fuel supply.</li> <li>• The potential for a bulk release of petroleum products may be present during and after a tropical cyclone event.</li> </ul>
	<ul style="list-style-type: none"> <li>• Telecommunications and broadband equipment and systems may be damaged by high wind, storm surge, and/or flooding, which would cause communication disruptions or outages.</li> <li>• Additional disruption may occur because of power outages.</li> <li>• Outages could impact public sector information sharing platforms, dispatch centers, media transmissions, and the financial sector.</li> </ul>
	<ul style="list-style-type: none"> <li>• Transportation routes may be altered because of lane reversal to support evacuations, road closures or damage, bridge closures or damage, and/or railway closures or damage.</li> <li>• Port and airport operations may be disrupted, and infrastructure may be damaged or destroyed.</li> <li>• Disrupted transportation routes may affect supply chains. Ingress and egress routes may not be able to remain open for critical supplies to and from affected areas.</li> <li>• Blocked or damaged roadways may inhibit the restoration of power and the delivery of commodities or services.</li> <li>• Reentry capabilities will be impacted based on the level of damage to the transportation network.</li> <li>• Sand, debris, and floodwaters on roadways may prevent or impede transportation in impacted areas.</li> </ul>
	<ul style="list-style-type: none"> <li>• Hazardous materials storage and transportation equipment and systems may be damaged by high wind, storm surge, and flooding, potentially resulting in release of hazardous materials, further complicating any response efforts.</li> <li>• Damage to storage containers, including pesticides and fertilizers, or transportation infrastructure could cause environmental, human, and animal health risks.</li> </ul>

	<ul style="list-style-type: none"> <li>• Water and wastewater systems may be offline due to power outages or flooding.</li> <li>• Treatment and storage facilities could be damaged by high winds.</li> <li>• Distribution or collection lines crossing flooded bodies of water may be damaged.</li> <li>• Storm surge and heavy rains may impact surface water intakes, potentially creating a need for desalinization of water sources.</li> <li>• Boil water advisories may be needed due to water infrastructure impacts.</li> <li>• Improperly cased wells that experience flooding may be contaminated, thus causing further groundwater issues.</li> </ul>
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**IX. ORGANIZATION AND ASSIGNMENT OF RESPONSIBILITIES**

A. See Section IX (Organization and Assignment of Responsibilities) of the SCEOP for the general roles and responsibilities to all hazards, for State and Federal agencies in preparation, response, and recovery from a disaster impacting the State.

B. Emergency Support Functions (ESFs). Coordinating agencies will conduct an annual review of their ESF-specific hurricane responsibilities with primary and supporting agencies.

1. ESF-5 (Emergency Management)

South Carolina Emergency Management Division (SCEMD)  
(Coordinating Agency)

- (1) Notify SCEMD staff, SERT, and counties of all Atlantic tropical cyclones via email.
- (2) Organize and facilitate county and SERT conference calls leading up to and during an event. Depending on assessed threat levels, initial calls may consist of select counties and select SERT agencies.
- (3) Coordinate interstate Emergency Management Assistance Compact (EMAC) planning with ESF-4, ESF-9, and others as applicable to the threat.
- (4) Assess storm forecast and potential state/regional impact using hurricane-tracking tools.
- (5) Coordinate with FEMA Region 4 Threat Assessment Unit, HLT, and ELT.
- (6) Develop storm scenarios in conjunction with NWS.

- (7) Publish EMAC Sitrep in EMAC Operations System (EOS). Request EMA A Team.
  - (8) Select tentative Logistical Staging Areas (LSA) to support state and EMAC requests.
  - (9) Participate in Federal and/or multi-state conference calls coordinating regional operations.
  - (10) Pre-stage resources, to include EMAC teams, if required.
  - (11) Establish warehouse operations.
  - (12) Coordinate and distribute disaster intelligence products as needed.
2. ESF-1 (Transportation)
- a. South Carolina Department of Transportation (SCDOT) (Coordinating Agency)
    - (1) Coordinate and compile damage assessments and estimated clearance time of roads and bridges.
    - (2) Coordinate road clearance priorities.
    - (3) Position signage (variable message boards, road markers) to facilitate reentry, as required.
    - (4) Contact SCDOT Agency Coordination Center (ACC) to determine status of all bridges, roadways, SCDOT equipment, personnel, and facilities affected by the storm, as required.
    - (5) Establish Air Operations Branch for coordination and management of aerial operations; coordinate as required with ESF-4, ESF-13, and ESF-19 for aviation assets.
  - b. South Carolina Department of Public Safety (DPS)

Coordinate with SCDOT to activate the DOT message boards with evacuation messaging.
  - c. South Carolina National Guard (SCNG)

Provide assets for road clearance assistance if necessary.
3. ESF-2 (Communications)

South Carolina Department of Administration (Coordinating Agency)

- (1) Assess communications needs, prioritize requirements, and make recommendations to deploy equipment and personnel to affected areas, as required.
- (2) Coordinate with ESF-16 to ensure readiness of pre-planned radio and airborne repeater equipment as needed.
- (3) Coordinate communications to critical needs (e.g., 911/dispatch, public safety responders, EOCs, and hospitals).

4. ESF-3 (Public Works and Engineering)

South Carolina National Guard (SCNG) (Coordinating Agency)

- (1) Lead coordination for the distribution of sandbags and specialized flood fight equipment from the USACE as needed.
- (2) Maintain awareness of water system statuses across impacted areas.

5. ESF-4 (Firefighting)

South Carolina Department of Labor, Licensing, and Regulation (SCLLR) (Coordinating Agency)

- (1) Request swift water assets through the SC Firefighter Mobilization process and stage at the State Fire Academy or designated pre-staging locations until assessment and resources requirements are determined. Coordinate deployment of assets as required.
- (2) Provide communications, heavy equipment, and personnel to support search and rescue efforts as requested.

6. ESF-6 (Mass Care)

a. South Carolina Department of Social Services (SCDSS) (Coordinating Agency)

- (1) In accordance with Annex H (General Population Shelter Management), coordinate with SCEMD and the counties to determine the required number and location of evacuation support shelters.

- (2) Maintain awareness of shelter status – communications, occupancy, accessibility, power, unmet needs, and ongoing issues.
  - (3) Assess shelter requirements based on potential long-term feeding needs.
  - (4) Coordinate with ESF-11 regarding post-storm emergency fixed and mobile feeding sites as required and/or implement feeding task force.
  - (5) Develop staffing to support shelters and/or establish sheltering task force for coordination.
  - (6) Determine post-storm sheltering needs based on damage assessment information.
  - (7) Assess availability of SCDSS employees, and Red Cross/other Voluntary Organizations Active in a Disaster (VOAD) volunteers to manage shelters.
  - (8) Implement shelter closing and consolidation procedures in coordination with Red Cross and affected counties.
- b. South Carolina Department of Public Health (DPH)
- (1) Open and operate Medical Needs Shelters in coordination with local emergency management as required.
  - (2) See Annex I (Medical Needs Shelter Management) of the State Hurricane Plan for more information.
- c. County
- (1) Identify shelters available for post-storm use.
  - (2) Project shelter closing and consolidation procedures in coordination with Operations, SCDSS, and Red Cross.
  - (3) Coordinate and assess ADA and functional and access needs as needed.
7. ESF-7 (Finance and Administration)
- South Carolina Emergency Management Division (SCEMD)  
(Coordinating Agency)
- (1) Determine availability of critical resource items from commercial vendors.

- (2) Activate vendor contracts for equipment and supplies.
  - (3) Support Logistics as needed at Regional Staging Areas (RSAs).
  - (4) See Annex 7 (Finance and Administration) of the SCEOP.
8. ESF-8 (Health and Medical Services)
- a. South Carolina Department of Public Health (Coordinating Agency)
    - (1) Monitor census reduction and movement of critical care patients from hospitals in evacuation zones.
    - (2) Coordinate with the South Carolina Hospital Association to communicate Mandatory Medical Evacuation Operations (MMEO) issuance to membership and to facilitate bed matching if required.
    - (3) Coordinate EMS transportation with healthcare facilities as needed. Coordinate with the South Carolina EMS Association as required.
    - (4) Determine status of public health and healthcare support systems.
    - (5) Monitor healthcare facility conditions and needs.
    - (6) See Annex J (Mandatory Medical Evacuation Operations) of the State Hurricane Plan for more information.
  - b. South Carolina Department of Mental Health
    - (1) Coordinate delivery of behavioral health services to affected individuals, families, communities, and responders.
    - (2) Provide assistance to law enforcement and other agencies in coordinating crisis and behavioral health services.
9. ESF-9 (Search and Rescue)
- South Carolina Department of Labor, Licensing, and Regulation (SCLLR) (Coordinating Agency)
- (1) Integrate the South Carolina Firefighter Mobilization Plan to support search and rescue efforts in affected areas.
  - (2) Coordinate activation of the South Carolina Emergency Response Task Force (SCERTF) Incident Support Team

(IST) for agency coordination at the South Carolina Fire Academy or deployment to affected areas for all-hazard assessment and incident support as required.

- (3) Request and stage the State Urban Search & Rescue (US&R) Task Force at the State Fire Academy until assessment and resource requirements are determined. Coordinate deployment of assets as required.

10. ESF-10 (Environmental and Hazardous Materials Operations)

South Carolina Department of Environmental Services  
(Coordinating Agency)

- (1) Provide information regarding any known Hazardous Material (HAZMAT) threats.
- (2) Coordinate response action for spills and releases of oil and hazardous substances as required.
- (3) Communicate with state regulated dam owners about lowering water levels as required.
- (4) Monitor status of state regulated dams.

11. ESF-11 (Food Services)

South Carolina Department of Social Services (Coordinating Agency)

- (1) Estimate feeding requirements based on shelter populations.
- (2) Coordinate with the South Carolina Department of Education (SCDE) and local school district food supervisors to identify food stocks already available that may be used for feeding operations.
- (3) In coordination with ESF-6, develop plans to transport and distribute bulk food supplies to support feeding operations in impacted areas.

12. ESF-12 (Energy)

Office of Regulatory Staff (ORS) (Coordinating Agency)

- (1) Activate Evacuation Fuel Plan as required.
- (2) Coordinate implementation of Annex G (Hurricane Evacuation Fueling and Refueling Operations) as required.

- (3) Provide status of consumer fuels/resupply.
  - (4) Track status of natural gas pipelines and natural gas supplies.
13. ESF-13 (Law Enforcement)
- a. South Carolina Law Enforcement Division (SLED) (Coordinating Agency)
    - (1) Coordinate with ESF-16 for law enforcement support along identified evacuation routes and reentry control points in impacted areas.
    - (2) Provide disaster intelligence and reports of observed critical facilities, roads, or bridges that have sustained damage.
    - (3) Coordinate law enforcement activities for evacuated areas as required.
  - b. South Carolina Department of Public Safety (SCDPS)
    - (1) Provide security presence in accordance with ESF-13 requirements.
    - (2) Coordinate with SLED and local emergency managers to facilitate reentry operations.
14. ESF-14 (Initial Recovery and Mitigation)
- South Carolina Emergency Management Division (SCEMD)  
(Coordinating Agency)
- (1) Set up incident-specific damage trackers.
  - (2) Communicate relevant disaster recovery program information to county partners.
  - (3) Request residential, public infrastructure, and business damage assessment information.
  - (4) Track and compile damage assessment and cost information to support requests for federal assistance.
  - (5) Coordinate Joint Preliminary Damage Assessment process, including scheduling, staffing, and data management.
  - (6) Begin scoping recovery needs.

- (7) Support transition from ESFs to Recovery Support Functions (RSFs) in conjunction with Federal partners.
- (8) Coordinate submission of damage assessment information to FEMA and Small Business Administration (SBA) as needed.
- (9) Prepare and submit for Governor's signature a request for a Presidential major disaster declaration if needed.
- (10) Coordinate requests for and implementation of federal assistance programs including Joint Field Office (JFO) staffing.
- (11) Support implementation of multi-agency shelter transition activities.
- (12) Engage counties in identifying temporary housing sites, developing temporary housing plans, and implementing federal housing assistance programs if needed.
- (13) Facilitate information sharing with VOADs and Long-Term Recovery Groups (LTRGs) to address unmet needs to survivors.
- (14) See Appendix 6 (South Carolina Recovery Plan) to the SCEOP.

15. ESF-15 (Public Information)

South Carolina Emergency Management Division (SCEMD)  
(Coordinating Agency)

- (1) Coordinate with Public Information Officers (PIOs) in the local EOCs and SEOC regarding need to issue coordinated information about when and where it is safe for residents to return to the area. Joint press releases may be necessary across various jurisdictions for reentry purposes.
- (2) See Annex D (Public Information) of the State Hurricane Plan for more information.

16. ESF-16 (Emergency Traffic Management)

a. South Carolina Department of Public Safety (SCDPS)  
(Coordinating Agency)

- (1) Mobilize evacuation support personnel and resources.

- (2) Direct and oversee staffing of Traffic Control Points (TCPs) for traffic control.
  - (3) Stage resources in preparation for lane reversals and implement lane reversal if ordered.
  - (4) Monitor evacuation status and traffic flow (speed, traffic counts, accidents, and critical intersections).
  - (5) Coordinate with SCEMD, coastal counties, and ESF-1 to provide lane reversal recommendations to the Executive Group.
  - (6) If lane reversal was not initiated with the evacuation order, maintain staging of lane reversal resources and initiate lane reversal operations if ordered.
  - (7) Provide post-disaster intelligence and infrastructure status reports to local EOCs and the SEOC.
  - (8) Prepare for and execute traffic control procedures for reentry as needed based on county plans and policies.
  - (9) Monitor reentry traffic.
  - (10) Manage traffic at critical intersections post-impact with priority given to emergency service vehicles, transportation of supplies/equipment, and access to critical facilities.
  - (11) Assist public and private organizations with traffic control during restoration of infrastructure services.
  - (12) See Annex F (Traffic Management) of the State Hurricane Plan for more information.
- b. South Carolina Department of Transportation
- Monitor evacuation status and traffic flow (speed, traffic counts, accidents, and critical intersections).
17. ESF-17 (Agriculture and Animals)
- a. Clemson Livestock Poultry Health (CULPH) (Coordinating Agency)
    - (1) Disseminate information related to emergency stabling options to support evacuation of horses.

- (2) Disseminate storm preparedness guidance to livestock and poultry owners and agricultural producers.
  - (3) Coordinate resources to support local field activity as requested.
  - (4) Coordinate resources to support food/agriculture/animal impacts.
  - (5) Assist with dissemination of information regarding reentry with critical food and agriculture businesses.
  - (6) Coordinate available resources to assist with recovery for storm related agriculture and animal issues.
- b. Clemson Extension
- (1) Conduct agriculture and animal related damage assessments.
  - (2) Coordinate resources to support food/agriculture/animal impacts.
- c. All ESF-17 partners
- Coordinate resources to support food/agriculture/animal impacts.
18. ESF-18 (Donated Goods and Volunteer Services)
- South Carolina Department of Administration (Coordinating Agency)
- (1) Oversee all donations management.
  - (2) Prepare and coordinate donated resources and volunteer services and activities.
  - (3) Request volunteers, as needed.
19. ESF-19 (Military Support)
- South Carolina National Guard (SCNG) (Coordinating Agency)
- (1) Conduct critical equipment readiness and locate replacements for any non-operable equipment.
  - (2) Maintain personnel status based on deployments.

- (3) Select tentative logistical staging areas for support of National Guard forces.
- (4) Identify routes for deployment and support in collaboration with SCDOT and SCDPS.
- (5) Deploy Civil Support Team communications van in support of state missions as required.

20. ESF-24 (Business and Industry)

Department of Commerce (Coordinating Agency)

- (1) Serve as a liaison between the public sector and SC business community to ensure the communications of the latest disaster information, business status, and any unmet needs.
- (2) Work with the private sector to assist in re-establishing commercial operations.
- (3) Process post-disaster business reentry requests.

**X. CONTINUITY OF GOVERNMENT (COG).** See the SCEOP Basic Plan, Section VII, paragraph L (Continuity of Government).

**XI. CONTINUITY OF OPERATIONS (COOP).** See the SCEOP Basic Plan, Section VII, paragraph M (Continuity of Operations).

**XII. PLAN DEVELOPMENT AND MAINTENANCE**

- A. This plan is the principal source of documentation concerning the State’s tropical cyclone activities.
- B. SCEMD and the SERT will annually review this plan prior to the start of each hurricane season (1 June).
- C. The SCEMD Hurricane Program Manager will coordinate the efforts of all responsible departments and agencies for plan revisions and updates.

**XIII. ADMINISTRATION, LOGISTICS AND FINANCE**

- A. See the SCEOP Basic Plan, Section X (Administration, Logistics and Finance).
- B. See SCEOP Basic Plan, Attachment A (SC Logistics Plan).

**XIV. AUTHORITIES AND REFERENCES.** See the SCEOP Basic Plan, Attachment C (Authorities and References).

**XV. ACRONYMS AND GLOSSARY.** See SCEOP Base Plan, Attachment B (Acronyms and Glossary).