

Goal #2: Obtain resources necessary to reduce the impact of hazards on people and property.

Mitigation Action	Hazard(s) Addressed	Priority	Category	Associated Goal	Estimated Cost	Potential/Current Funding Sources	Lead Agency or Department Resources	Implementation Schedule	Implementation Status	Milestones Achieved, Impediments to Implementation	Status in 2018 Plan
Continue responding to hazard emergencies	Haz-Mat, Fires	High	Emergency Services	2	Staff time and resources	General Fund	College of Charleston	Dependent on funding	Dependent on funding	Protecting lives of employees and students natural and man-made hazards; employees and students campus community regarding vulnerability to hazards and steps to reduce vulnerability; preserve environmental resources; preserve historic building inventory; promote long-term resiliency of the college. 2018 - Ongoing	Ongoing
Development of campus web pages and email blasts for natural and man-made hazards on campus	All Hazards	High	Public Information	2	Staff time and resources	General Fund	College of Charleston	Dependent on funding	Dependent on funding	Protecting the lives of employees and students from natural and man-made hazards; Minimize future hazardous materials incidents; promote long-	Ongoing

										term resiliency of the college. 2018 - Ongoing	
Continued use of Cougar Alert system	All Hazards	High	Public Information	2	\$50,000/year	General Fund	College of Charleston	Dependent on funding	Dependent on funding	Protecting the lives of employees and students from natural and man-made hazards; Minimize future hazardous materials incidents; promote long-term resiliency of the college. 2018 - Ongoing	Ongoing
Continued development of campus map including referenced blue prints	All Hazards	High	Emergency Services and GIS	2	\$1,500,000	General Fund	College of Charleston	Dependent on funding	Dependent on funding	Protecting the lives of employees and students from natural and man-made hazards; promote long-term resiliency of the college. 2018 - Ongoing	Ongoing
Continue development of campus EOC/GIS computing / WebEOC center	All Hazards	High	Emergency Services. GIS , Public Information	2	\$5,000,000	General Fund and Grant funding	College of Charleston	Dependant on funding	Dependant on funding	Protecting the lives of employees and students from natural and man-made hazards; promote long-term resiliency of the college.	Ongoing

										2018 - Ongoing	
Install exterior hurricane shutters on all glass doors and windows	Flood, Hurricane, Tornados	High	Property Protection, Continued Services	2	\$228,000 (estimated at \$22,800 per facility for 10 owned coastal facilities)	FEMA, Emergency Operational Planning, PDM, HMGP, EMPG, Homeland Security Grants, State Funding	Department of Motor Vehicles, Max Parmisani, Mobile (803) 429-0365, Office (803) 896-9891	Upon funding, solicitations will begin for immediate implementation	Dependent on funding	Dependent on funding, but goal is to have every DMV (owned facility) on the coast, fortified against natural disaster conditions that would hinder operations to the public	New
Implement a real-time seismic monitoring program. Real-time data sensors utilized on critical SCDOT bridges to help managers make decisions on structural integrity mitigation measures following an earthquake	Earthquake	Moderate	Property Protection	2		FEMA- Emergency Operational Planning, Pre Disaster Mitigation, Hazard Mitigation Grant Program, Emergency Management Performance Grant, Homeland Security Grants, State Funding	Department of Transportation	Dependant on funding	Dependant on funding	2020 - Impediments: funding and permits.	Updated and Ongoing
Purchase satellite phones for seven district headquarters, forty-six county offices and	All Hazards	Moderate	Emergency Services	2	\$400,000	FEMA- Emergency Operational Planning, Hazard Mitigation Grant Program, Pre Disaster Mitigation,	Department of Transportation	Dependant on funding	Dependant on funding	2020 - Impediments: funding and permits.	Updated and Ongoing

twenty SCDOT headquarters for issue to inspection teams.						Emergency Management Performance Grant, Homeland Security Grants, State Funding					
Purchase 800mhz radio systems for SCDOT to include base stations, handheld and mobile.	All Hazards	Moderate	Emergency Services	2	\$10,000,000	FEMA- Emergency Operational Planning, Hazard Mitigation Grant Program, Pre Disaster Mitigation, Emergency Management Performance Grant, Homeland Security Grants, State Funding	Department of Transportation	Dependant on funding	Dependant on funding	2020 - Impediments: funding and permits.	Updated and Ongoing
Acquire bridge and deck sensors and cameras to monitor icing conditions on major overpasses and critical bridges.	Ice Storm	Moderate	Property Protection	2	\$5,000,000	FEMA- Emergency Operational Planning, Hazard Mitigation Grant Program, Pre Disaster Mitigation, Emergency Management Performance Grant, Homeland Security Grants, State Funding	Department of Transportation	Dependant on funding	Dependant on funding	2020 - Impediments: funding and permits.	Updated and Ongoing
Fund the Beach Restoration and Improvement Trust Fund	Coastal Storms and Hurricanes; Erosion	High	Prevention, Property and Natural Resource Protection	2	\$5,000,000	State General Assembly	DHEC- OCRM in conjunction with the SC General Assembly	Ongoing	Annual appropriation	In 2008, the SC General Assembly appropriated \$4,089,407 for re-nourishment in the DHEC	Ongoing

										supplemental budget. The GA did not utilize the Beach Re-nourishment Trust Fund for re-nourishment appropriations. 2018 - Ongoing	
Purchase 3 Gyro-Trac type machines for mechanical fuels reduction projects in fire-prone communities, or contract with vendors to conduct these treatments.	Wildfire	High	Emergency Services	2	\$500,000	National Fire Protection grants, Department of Homeland Security – Assistance to Firefighters Grants	Forestry Commission	As funding becomes available.	Dependant on funding	2013 - Lack of funds to purchase equipment; have contracted out such work and have begun a list of contractors for private landowners to contact. 2018 - Ongoing	Ongoing
Provide Automatic Vehicle Locators (AVL) on firefighting equipment.	Wildfire	Moderate	Emergency Services	2	\$200,000	National Fire Protection grants, Department of Homeland Security – Assistance to Firefighters Grants	Forestry Commission	As funding becomes available.	Technology exists, yet no funding source has been identified	2010 - Conducted pilot study using cellular network for AVL with some success. Currently evaluating other AVL systems. Utilize National Fire Plan preparedness grant funds to acquire AVL equipment if	Ongoing

										possible. 2018 - Ongoing	
Equip rural fire department brush trucks with foam capabilities to address wildfires.	Wildfire	Moderate	Emergency Services	2	\$5,820,000	National Fire Protection grants, Department of Homeland Security – Assistance to Firefighters Grants, National Fire Plan and the Volunteer Fire Assistance (VFA) grants	Forestry Commission	Ongoing as funds allow	Ongoing	2013 - foam capabilities for the rural fire departments have improved. Grant funds can also be used for repairing the brush trucks increasing their capacity to deliver foam. 2018 - Ongoing	Ongoing
Provide back-up generator services to SC's largest food bank that serves as the ESF 18 (donated svcs.) primary distribution agency.	Terrorism, Hurricane, Ice Storms, Biohazards	High	Prevention	2	\$865,000.00	Mungo Foundation, Wells Fargo Foundation, Bank of America Foundation, Hollingsworth Fund, Walmart Foundation, Central Carolina Community Foundation, Duke Power Foundation, Feeding America, TJX Foundation	Harvest Hope Food Bank	Phase I - Greenville, SC (Priority 1/Year 1) Phase II - Columbia, SC (Priority 2/Year 2) Phase III - Florence, SC (Priority 3/Year 3)	Awaiting equipment purchase and installation.	1. Harvest Hope has identified priority locations needed for back-up generators. Florence Branch has been added to this request due to the aftermath of Hurricane Matthew in October of 2016. 2. Harvest Hope has solicited quotes/preliminary bids for purchase and installation of generators for all three phases.	Updated and Ongoing

										3. Harvest Hope has identified sites to place these generators at all three locations. Continuing Roadblock: Private and foundation funding for capital expenditures of this nature for disaster mitigation are rare and are not at a level to make possible these purposes. Lessons learned during the 1,000 year flood in 2015 and Hurricane Matthew in 2016 have reinforced the need to purchase and install this equipment.	
Improve drainage for warehouse drainage dock where SC ESF-18 (Donated Goods and Services) food delivery are made.	Hurricane, Tornado, Ice Storms, Flooding	High	Property Protection	2	\$150,000.00	Mungo Foundation, Wells Fargo Foundation, Bank of America Foundation, Hollingsworth Fund, Walmart Foundation, Central Carolina Community Foundation, Duke Power Foundation,	Harvest Hope Food Bank	Within 12 months of identifying and receiving funding. Project should be completed prior to the end of the second quarter post-receipt of funds, but allowing for a full 12 months due to weather, contractor availability.	Awaiting contract award and completion.	1. Harvest Hope Food Bank has an on-going issue with drainage from the dock located at 2220 Shop Road, Columbia, SC. 2. Contractors have assessed the property and have	New

						Feeding America, TJX Foundation				identified alternate drainage routes for this area. 3. Initial bids have been submitted for completion of this project. Roacblock: Funding for this type of drainage project is limited within the non-profit sector. Since Harvest Hope is the lead agency for South Carolina Emergency Management Division for food donated during disaster, the food bank is requesting assistance with identifying government funding that may assist with the project.	
Retrofit identified corrections facilities to withstand earthquake related impacts.	Earthquake	Moderate	Property Protection	2	\$1,000,000	HMA grants, Economic Development Administration, PA, EMPG, SBA	SC Dept of Corrections	Dependant on funding	2009- Submitted for review to SCDOC as possible future project.	2009 – Pending special funding/grants. 2018 - Ongoing	Ongoing

Establish timely release of Beach Renourishment Trust Fund.	Hurricane, Coastal Erosion, Nor' easter	High	Prevention	2	Staff time and resources	N/A	South Carolina Parks, Recreation , and Tourism		Ongoing	Legislative action, Adminstered by the Ocean and Coastal Resource Management Office of SC DHEC. Impediments: Municipal and county government eligibility.	New
Survey all SA facilities providing essential community services in SC for existing electrical service and to install a transfer switch for back-up power generation.	Flood, Hurricane, Severe Weather, Winter Storms, Tornados	High	Prevention/ Preparednes	2	\$500,000	HMGP, Salvation Army property and/or disaster funds	The Salvation Army, North Carolina & South Carolina Division	Phase 1 – Northern/Central /Southern Conglomerate locations. Phase 2- Western Conglomerate locations	Dependant on funding	2018 - Ongoing	Ongoing

Install back-up generator (elevated where necessary) to all SA facilities in SC providing essential community services	Flood, Hurricane, Severe Weather, Winter Storms, TORNADOS	High	Prevention/ Preparedness	2	\$7,500,000	HMGP, Salvation Army property and/or disaster funds	The Salvation Army, North Carolina & South Carolina Division	Phase 1 – Northern/Central/Southern Conglomerate locations. Phase 2- Western Conglomerate locations	Dependant on funding	2018 - Ongoing	Ongoing
Conduct wind retrofits, including but not limited to storm shutters, to SA facilities providing essential community services.	Flood, Hurricane, Severe Weather, Winter Storms, TORNADOS	High	Prevention/ Preparedness	2	\$2,000,000	HMGP, Salvation Army property and/or disaster funds	The Salvation Army, North Carolina & South Carolina Division	Phase 1 – Northern/Central/Southern Conglomerate locations. Phase 2- Western Conglomerate locations /Southern Conglomerate locations.	Dependant on funding	2018 - Ongoing	Ongoing

Further advance statewide implantation of 211 communication system	Hurricane, Tropical Storms, Wildfires, Floods, Nuclear Events, Pandemic Flu	Moderate	Public Information and Awareness	2	\$715,000	\$650,000 United Way and United Way Association of South Carolina. Need additional \$65,000 to establish disaster response protocols and purchase additional satellite phones.	United Way Association of South Carolina	Dependent upon funding	Wireless and land line capability statewide. Limited VOIP capability. No funding for statewide readiness development.	Continuous funding for statewide readiness monitoring and satellite phones needed. 2018 - Ongoing	Ongoing
Emergency Notification System/Weather Monitoring System that would automate real-time weather monitoring with campus wide notification. Emergencies could be communicated to sectors of the community, community wide and/or to public areas. Weather system that allows for plume monitoring should a chemical release occur.	All Hazards	High	Emergency Services	2	\$550,000	Pre Disaster Mitigation, Hazard Mitigation Grant Program, Emergency Management Performance Grant, FEMA All Hazards Emergency Operational Planning, University of South Carolina	University of South Carolina	Hire a contractor to write software to automate weather warnings from the National Weather Service to automatically activate the Emergency Notification Systems currently on campus.	Funding is needed to implement this action. Once funding for the action is received, implementation will begin.	Dependent on funding	Ongoing

