

SEVERE WEATHER PLAN

MUSC

SEVERE WEATHER

PLAN

2009

SEVERE WEATHER PLAN

Title	Page #
Introduction	3
Definitions	
Hurricane Evacuation	4
Evacuation Routes	
Shelters	5
Area Shelters	
Students	
Dependents of Designated Personnel	
Pets	
Students	7
School Closing Policy	
Residents	
Resuming Classes	
Communication	
Evacuation	
Medical Center Personnel	9
Responsibilities	
Patient Care Departments	
Ancillary and Support Departments	
Transportation	
University Personnel	10
Responsibilities	
Designated Employees	
Non-Designated Employees	
Closing Preparations	
Departmental Procedures	12
Department Plans	
Responsibilities	
Limiting Access to "Restricted Occupancy" Buildings	12
Other Emergencies	13
Tornadoes	
Winter Weather	
Appendix A - Family Preparation	14
Appendix B - List of Shelters	16
Appendix C - Evacuation Routes	17
Appendix D - Shelter Authorization Form	18
Appendix E- Boarding Facilities for Pets	19
Appendix F- Building Status	20

SEVERE WEATHER PLAN

INTRODUCTION

All MUSC employees, students, contract employees, and volunteers must have a working knowledge of their department's or college's emergency preparedness plan. In addition, all employees, designated and non-designated, should establish a personal emergency preparedness plan for their families. The Medical University of South Carolina is not a designated emergency shelter and will not act as one during a natural disaster. Only designated employees will be allowed on the MUSC campus during a weather emergency. (See "Definitions" below)

The Master Plan for Severe Weather will be reviewed annually. For guidelines on family preparations during severe weather, refer to Appendix A. For a list of area shelters, refer to Appendix B.

Definitions (taken from HRM policy 13, Medical Center policy 64-A, and the National Hurricane Center)

Designated employees = In emergency situations, individuals who directly, or indirectly, contribute to the ability of the Medical University to provide essential services. The Governor's declaration does not excuse Designated personnel from work.

Non-Designated employees = Employees whose presence is required neither to carry out the altered institutional mission during the emergency nor to return to normal operation. However, these employees are expected to respond to announcements of closings in a manner consistent with their respective department's policy and procedures.

Weather Watch = An announcement indicating weather conditions may become hazardous within **36 hours**.

Weather Warning = An announcement indicating weather conditions may become hazardous within **24 (or less) hours**.

Weather Emergency = An announcement indicating weather conditions have advanced to a threatening/dangerous stage. This announcement means the suspected dangerous weather conditions are expected to begin within hours of the announcement.

Gale Warning = Winds of 39-54 mph are expected in the area designated.

Storm Warnings = Winds of 55 mph or greater are expected in the area designated.

Hurricane Watch = Hurricane conditions in are possible within 36 hours.

Hurricane Warning = A hurricane is expected within 24 hours.

SEVERE WEATHER PLAN

Tornado Watch = Tornadoes are expected to develop within the area indicated.

Tornado Warning = A tornado has been sighted within the area indicated.

Tropical Storm Warning = A warning that sustained winds within the range of 39 to 73 mph are expected within 24 hours.

Winter Weather = Hazardous weather conditions exist in the form of ice and snow.

Flood Warning = An announcement indicating water may rise to a hazardous level.

HURRICANE EVACUATION

The primary goal of the MUSC evacuation plan is to ensure the evacuation of students and non-designated employees of the MUSC Community is conducted in an orderly manner. Based on information gathered from the Charleston County Emergency Preparedness Division, the South Carolina Emergency Preparedness Division, the National Hurricane Center, and the Medical Center Disaster Coordinator, the Director of University Risk Management will determine when it is necessary to recommend the evacuation of MUSC. Once this determination is made, the Director of University Risk Management will notify the President, Vice President of Academic Affairs, and the Vice President of Finance and Administration of the recommendation to initiate the evacuation plan for MUSC. Upon authorization, the first phase of evacuation will begin with the students, followed by notification to all non-designated personnel.

Evacuation Routes:

Refer to Appendix C for a list of possible evacuation routes. These routes have been designated as evacuation routes by the South Carolina Department of Public Safety and the South Carolina Highway Patrol and should be followed accordingly in order to achieve the most effective and efficient evacuation for Charleston County.

SEVERE WEATHER PLAN

SHELTERS

Area Shelters

Refer to Appendix B for a complete list of all shelters in the tri-county area. For inquires concerning any of these shelters, contact the Charleston Chapter of the American Red Cross at (843) 764-2323 or go to the following websites:

Charleston County EMD: <http://www.charlestoncounty.org/>

Berkeley County EMD: <http://www.berkeleycountysc.gov/>

Dorchester County EMD: <http://www.dorchestercounty.net/>

These shelters are under the supervision and direction of the Charleston Chapter of the American Red Cross and the corresponding county emergency management department.

You may also go to <http://scangis.dhec.sc.gov/dhecshelters/public/Default.asp> to find open shelters and get driving directions from your address. This site is sponsored by South Carolina DHEC. For further information contact DHEC at 803-898-3668. This link as well as those links listed above can be found on the MUSC Weather Emergency Website (<http://www.musc.edu/weatheremergency/>).

Students

MUSC students (undergraduate, graduate, and post doctorate, excluding Residents) who are without a safe location to evacuate are responsible for notifying their colleges. Individual colleges will maintain an accurate and all-inclusive list of their students in need of assistance in a weather emergency. It is the students' responsibility to notify their College Dean's Office in order to be included on this listing. At the announcement of cancelled classes and in the event students are asked to evacuate, these students should report to the Basic Science Building Auditorium to be transported to the nearest shelter. See Appendix B for a list of these shelters. University Risk Management will coordinate with University Transportation Services to satisfy these transportation needs. Once conditions are safe as determined by state and local officials, University Transportation Services will pick up our students from the shelter(s) and transport them back to the Colbert Education Center and Library Building on the MUSC campus. Students will not be allowed to stay on campus once the decision has been made to evacuate students.

Dependents of Designated Personnel

University accommodations for Designated employees' dependents are intended to serve as a last resort only and should not be utilized where other arrangements can be made. Accommodations for these dependents will be provided in designated areas in the medical center and university. These areas will be the only areas dependents are allowed to occupy. Dependents will not be allowed in other areas of the medical center and university. Accommodations for dependents require the written justification and approval of the appropriate medical center

SEVERE WEATHER PLAN

executive director, or his/her designee, the clinical department chairman, college dean, or the appropriate Vice President. Refer to the Shelter Authorization Form (Appendix D).

Pets

Pets will be allowed only in the designated area of the Ashley-Rutledge Patient/Visitor Parking Garage. These accommodations will only be available to designated employees who cannot make other arrangements. In order to accommodate the disabled, guide dogs for the blind will be allowed. Refer to Boarding Facilities for Pets (Appendix E) for information on local kennel's and boarding facilities.

SEVERE WEATHER PLAN

STUDENTS

School Closing Policy

In the event inclement weather threatens the Charleston area, students (undergraduate, graduate, and post doctorate) should follow the instructions of University, City, County, and State authorities. When such events disrupt or have the potential to disrupt scheduled classes and clinical rotations, the Vice President for Academic Affairs will ultimately decide when to cancel or delay starting times of scheduled classes and clinical rotations. (see "Hurricane Evacuation" above) The decision will be made after considering information conveyed by the Director of University Risk Management, gathered from weather authorities and local emergency preparation officials. Cancellations will be determined for classes and clinical rotations at the same time. The Vice President of Academic Affairs will notify the Director of University Risk Management of the decision to cancel classes. The Director of University Risk Management will coordinate efforts to make the appropriate announcements of class cancellations or delays. These announcements will be made as far in advance of a predicted event as possible.

In the event classes and clinicals are cancelled, ALL students are considered "non-designated" personnel.

Faculty and staff may not ask, direct, require, or coerce any student into remaining on campus once a decision has been made to cancel classes and clinicals. Students who are also employees of the University or the Medical Center should follow the disaster preparedness policies or guidelines of their respective departments.

Residents

Residents are considered "designated" employees and should follow the policies and procedures set forth for designated employees (see HRM policy #13). Residents are responsible for understanding the designated employee policies and what is expected of them during a disruption of normal business operations.

Resuming Classes

The Vice President for Academic Affairs will determine when scheduled classes and clinical rotations will resume and will notify the Director of Risk Management who will coordinate efforts to publicize this information as quickly as possible. The decision to resume classes will be based on information provided by University, City, County, and State officials. It is the student's responsibility to remain informed of such announcements.

Communication

Information regarding school closings and cancellations will be available through the red alert button on the MUSC home page and the my.musc.edu homepage, the MUSC Alert Emergency Notification System, local television and radio stations, the internal MUSC Broadcast Message system, and the MUSC dial-in information number, 792-MUSC. This emergency line will be available at all times during hurricane season providing up-to-date information on tropical storms approaching the South Carolina Coast, and as needed for other disasters and emergencies. For more information and guidelines during inclement weather, refer to the Student Handbook.

SEVERE WEATHER PLAN

Evacuation

Students (undergraduate, graduate, and post doctorate, excluding Residents) should begin evacuating, or be preparing to evacuate, at the announcement of cancelled classes and rotations. See section above, "Hurricane Evacuation", for more details.

SEVERE WEATHER PLAN

MEDICAL CENTER PERSONNEL

Responsibilities

All medical center employees have an obligation to be available during periods of adverse weather conditions. The Vice President of Clinical Operations will be responsible for ensuring proper allocation of nursing staff to provide coverage for all patient care areas. Refer to Policy A-64 and A-42 in the Medical Center Policy Manual for more information on policies and procedures during a weather emergency. Below is a summary of employee responsibilities for the different areas of the medical center. For non-designated employees, refer to Policy 13 in the MUSC & MUHA Human Resources Policy Manuals for responsibilities during a weather emergency.

Patient Care Departments

Departments involved in direct patient care should make provisions for a portion of the staff to remain in the medical center during the emergency. For a hurricane, the duration of stay for staff could be 3-4 days at least.

Ancillary and Support Departments

Ancillary and support service departments should determine staffing requirements and plan accordingly. These departments should also take steps to evaluate inventories and to ensure that supplies essential to medical center operations are secured or provided for through suppliers/vendors. Medical center employees in these areas who are scheduled to work must be prepared to stay two or three days.

Transportation

Medical center Administration and Public Safety in conjunction with the Director of University Risk Management will coordinate the transportation of all designated employees to and from the medical center during the emergency. Transportation will be provided on an emergency basis only. All personnel should be encouraged to continue to use private vehicles until conditions worsen and the roads are no longer safe for travel. Parking is available through the Office of Parking Management for your convenience. For more information on transportation of personnel, refer to section III of the Medical Center's "Weather Emergency Plan" and Public Safety's Operational Plan #15.

SEVERE WEATHER PLAN

UNIVERSITY PERSONNEL

Responsibilities

Below is a summary of responsibilities of Designated and Non-Designated employees as mandated by Policy #13. Refer to Human Resources Policy Manual for details on unauthorized leave of absence and disciplinary action.

Designated Employees:

- A. During hazardous weather or other emergency conditions, designated employees must report to work and come prepared to stay, i.e., three to four days. Employees already at work can be required to stay and persons can be called back to work until the emergency is over or other staff relieves them.
- B. It is required that designated employees provide their supervisors with current telephone information for contacting them during hazardous weather or other emergency conditions.
- C. Designated employees who fail to comply with this policy will be subject to disciplinary action up to and including termination and/or loss of pay for the days the employee was absent.
- D. Designated employees are required to protect their family members without the assistance of MUSC. This includes establishing a plan for their families assuming the designated employee will not be present. This plan should include a safe place for their family to reside during the storm, as well as transportation to this location. See Appendix A.

Non-designated Employees:

- A. Non-designated employees are not expected to come to work when the Governor issues a declaration of hazardous weather or emergency conditions for the Charleston area and excuses State employees from reporting to work. However, time missed from work will have to be "made up" as stated in HRM Policy #13.
- B. In the event of an emergency, a department head can request non-designated employees to remain at work to fulfill needs until designated employees arrive.
- C. Non-designated employees are expected to respond to announcements of closings in a manner consistent with their respective department's policy and procedures.

SEVERE WEATHER PLAN

Closing Preparations:

There are some universal duties all employees, regardless of status, are expected to adhere during inclement weather. They are as follows:

- Clear Desk tops completely
- Protect books, computers, and property with plastic sheeting and masking tape- contact Physical Plant for plastic sheeting and tape.
- Secure glass, heavy and sharp objects- carefully store items so that they will not fall.
- Take rolodexes, books, and diaries with you.
- Disconnect all electrical equipment. Please Do NOT disconnect the network connection to your computer (the wire with the telephone jack device connecting into the wall plate).
- Clear any laboratory tables and areas of all apparatus and glassware and place items into secure storage.
- Computers: Please copy appropriate files from your hard drive onto a storage device (i.e. flash drives, cd's, etc.) and take the storage device with you. Remove personal property, including electronic equipment. Do not remove MUSC computers.
- Do not tape windows.

For information regarding the University's "Hazardous Weather and Emergencies Policies and Procedures", refer to policy #13 in the Human Resources Policies and Procedures Manual.

SEVERE WEATHER PLAN

DEPARTMENTAL PROCEDURES

Department Plans

All departments throughout the MUSC Enterprise have now completed Business Continuity Plans (BCP) as of June 30, 2009. Your departmental BCP will provide you necessary actions to be taken to recover your area from a severe weather event. Included in these plans are emergency response team assignments, staff notification information, critical supplies needed, and vendor information, as well as other important departmental specific information. Detailed department plans are maintained by each department. A copy of each plan is available in University Risk Management. Each department should maintain a copy of their plain in their department as well.

Responsibilities

During Severe Weather, some MUSC buildings which have been predetermined as not suitable to withstand hurricane force winds or rising water will be closed to all designated and non-designated personnel. Designated personnel with mission critical activities housed within these locations will be reassigned to other buildings prior to the arrival of hazardous weather conditions. These employees will be allowed to return to these facilities as soon as the facility is deemed safe for entry.

All Department Heads must submit an updated ECP package to Risk management annually, to ensure The Director of Risk Management has a current list of all personnel allowed on campus during a weather emergency. These designated personnel will report to their department head for assignments during severe weather.

LIMITED ACCESS TO "RESTRICTED OCCUPANCY" BUILDINGS

In order for an employee to enter a restricted occupancy building once the decision has been made to close the university, the employee must be a designated employee and must present their university ID and their emergency ID card. In order for an employee to obtain an emergency ID card, the department head must submit to University Risk Management a list of the names of the designated departmental personnel, which are required to be on campus during a storm. The list must also indicate which building the employee will be assigned. All designated personnel who enter a university building must present an employee ID badge and a special emergency ID card, indicating they are approved to be on campus. The employee's ID badge will be checked against a "master" list of designated employees prepared by University Risk Management. Also, in the event dependents are allowed to be on campus during a storm, the pre-approved family members' names must be on the master list.

SEVERE WEATHER PLAN

OTHER EMERGENCIES

Tornadoes

Tornadoes are acts of nature that cannot be predicted far enough in advance to evacuate the MUSC campus or cancel classes or business operations in a safe and orderly manner. Once a tornado warning is issued for the Charleston peninsula, all personnel, students, and patients located on the upper floors of the MUSC buildings should relocate to ground level floors. If this is not possible, individuals should move to an area without windows and where the risk of flying debris is minimal. Areas offering the best protection during a tornado include:

- Hallways
- Bathrooms
- Storage rooms

It is important to use extreme caution during and after a tornado to avoid any unnecessary accidents. Individuals should remain calm and listen to authorities if a storm of this nature arises. Should MUSC be in the path of a tornado information will be passed to the MUSC community as soon as possible through MUSC Alert or the home page red button, before, during and after a tornado strikes.

Winter Weather

The decision to cancel classes, clinical rotations, and business operations will be made after considering information conveyed by the Director of University Risk Management, gathered from weather authorities, local emergency preparation officials and the Medical Center Disaster Coordinator. When sufficient information has been gathered, the Director of University Risk Management will notify the Vice President of Academic Affairs and the Vice President of Finance and Administration of the situation. Upon authorization, The Director of University Risk Management will notify Public Relations to make the appropriate announcements of class and business operations cancellations or delays. These announcements will be made as far in advance of a predicted event as possible. It is the responsibility of the students and staff to seek information of these announcements by registering for MUSC Alert, MUSC's Emergency Notification System, contacting the MUSC information line (792-MUSC), tuning to the local television and radio stations, or by clicking on the red alert button on the MUSC home page. In the event classes and business operations are cancelled, it is important to note that designated employees are still expected to report to work. See Policy 13 in the University Human Resources Policy Manual to gain a better understanding of these expectations.

SEVERE WEATHER PLAN

Appendix A

Family Preparation

Prepare a Personal Evacuation Plan

- Identify ahead of time where you could go if you are told to evacuate. Choose several places--a friend's home in another town, a motel, or a shelter.
- Keep handy the telephone numbers of these places as well as a road map of your locality. You may need to take alternative or unfamiliar routes if major roads are closed or clogged.
- Listen to NOAA Weather Radio or local radio or TV stations for evacuation instructions. If advised to evacuate, do so immediately.

Assemble a Disaster Supplies Kit Including the Following Items:

- First aid kit and essential medications.
- Canned food and can opener. Store at least a three-day supply of non-perishable food. Include ready-to-eat canned meats, fruits and vegetables and canned juices.
- At least three gallons of water per person.
- Protective clothing, rainwear, and bedding or sleeping bags.
- Battery-powered radio, flashlight, and extra batteries.
- Special items for infants, elderly, or disabled family members.
- Written instructions on how to turn off electricity, gas and water if authorities advise you to do so. (Remember, you'll need a professional to turn them back on.)
- For a more extensive list of items, please go to <http://www.redcross.org> or contact the Charleston Chapter of the American Red Cross at (843) 764-2323.

Prepare for High Winds

- Install hurricane shutters or purchase precut 1/2" outdoor plywood boards for each window of your home.
- Install anchors for the plywood and predrill holes in the plywood so that you can put it up quickly.
- Make trees more wind resistant by removing diseased and damaged limbs, then strategically removing branches so that wind can blow through.

Know What to Do When a Hurricane WATCH Is Issued

- Listen to NOAA Weather Radio or local radio or TV stations for up-to-date storm information.
- Prepare to bring inside any lawn furniture, outdoor decorations or ornaments, trash cans, hanging plants, and anything else that can be picked up by the wind.
- Prepare to cover all windows of your home. If shutters have not been installed, use precut plywood as described above. Note: Tape does not prevent windows from breaking, so taping windows is not recommended.
- Fill your car's gas tank.
- Recheck manufactured home tie-downs.
- Check batteries and stock up on canned food, first aid supplies, drinking water, and medications.

SEVERE WEATHER PLAN

Family Preparation (con't)

Know What to Do When a Hurricane WARNING is issued

- Listen to the advice of local officials, and leave if they tell you to do so.
- Complete preparation activities.
- If you are not advised to evacuate, stay indoors, away from windows.
- Be aware that the calm "eye" is deceptive; the storm is not over. The worst part of the storm will happen once the eye passes over and the winds blow from the opposite direction. Trees, shrubs, buildings, and other objects damaged by the first winds can be broken or destroyed by the second winds.
- Be alert for tornadoes. Tornadoes can happen during a hurricane and after it passes over. Remain indoors, in the center of your home, in a closet or bathroom without windows.
- Stay away from flood waters. If you come upon a flooded road, turn around and go another way. If you are caught on a flooded road and waters are rising rapidly around you, get out of the car and climb to higher ground.

Know What to Do After a Hurricane Is Over

- Keep listening to NOAA Weather Radio or local radio or TV stations for instructions.
- If you evacuated, return home when local officials tell you it is safe to do so.
- Inspect your home for damage.
- Use flashlights in the dark; do not use candles.

SEVERE WEATHER PLAN

Appendix B Shelters

**** These shelters are subject to change at any time.**

Please call the Charleston Chapter of the American Red Cross (843) 764-2323 or the Charleston County EMD at (843) 202-7400 to ensure the shelter you plan to go to is opened. You may also visit SC DHEC's "Shelter Status" website:

<http://scanqis.dhec.sc.gov/dhecshelters/public/Default.asp>

Shelters	Type:	Shelters	Type:
Charleston County:		Dorchester County:	
A. C. Corcoran Elementary	M	Beech Hill Elementary School	M
Alice Birney Middle	SMN	Fort Dorchester High School	V
Brentwood Middle School	M	Harleyville-Ridgeville Elementary	V
E.B. Ellington Elementary	P	Summerville Elementary School	M
Garrett Academy of Technology	M	Summerville High School	V
Ladson Elementary	R	Dorchester Senior Inc.	SMN
Lambs Elementary	M	Woodland High	M
Matilda Dunston Elementary	R	Dubose Middle School	R
Midland Park Elementary	V	Fort Dorchester Elementary	R
Minnie Hughes Elementary	P	St. George Middle School	R
Morningside Middle	V	Knightsville Elementary	R
CC Blaney	P	Windsor Hill Elementary	R
Pepperhill Elementary	M	Flowertown Elementary	R
Ron McNair Elementary	R	Oakbrook Middle	R
Stall High School	V	Rollings School of Arts	R
Berkeley County:			
Berkeley High School	V		
Berkeley Intermediate	SMN		
Cross Elementary	M		
Goose Creek High School	V		
Hanahan Middle	V		
Macedonia Middle	M		
Sangaree Elementary	M		
St. Stephen Elementary	V		
Stratford High	M		
Westview Primary School	M		
Cainhoy Elementary/Middle School	M		
Berkley Elementary	R		
Devon Forest Elementary	R		
Sedgefield Middle School	R		
Sedgefield Intermediate	R		
Westview Elementary	R		
Westview Middle School	R		
Whitesville Elementary	R		
St. Stephen Middle School	R		
Hanahan Elementary	R		

V; M = Voluntary; Mandatory Shelters. These shelters will open at least 4 hrs. after the decision to open shelters is made.

R = Reserve/Supplemental Shelters. These shelters will open if local officials deem it necessary.

SMN = Special Medical Needs Shelters. To see if your medical needs can be admitted to this shelter, please contact the American Red Cross at the above number or review [this chart](#).

P= Post Storm Shelter

SEVERE WEATHER PLAN

Appendix C Evacuation Routes Common Street Names

West Ashley Area:

Glenn McConnell Parkway and Bees Ferry Road
Mark Clark Expressway (Hwy 526)
Folly Road
Highway 61
Highway 7
Highway 17

Johns Island/Hollywood/Ravenel:

Main Road
Maybank Hwy.
Kiawah Island Parkway- Bohicket Road

Charleston Peninsula Area:

Spring St. & Lockwood Dr.
Calhoun St. & Meeting St.
East Bay St.

Mt. Pleasant:

Highway 17
Highway 41
Rifle Range Rd.
Highway 17 at McGrath-Darby
Clements Ferry Rd./ Highway 33 & Mark Clark

Ladson/ College Park:

Ladson Road
College Park Road
Highway 78

Isle of Palms/Sullivan's Island:

Palm Blvd.
Coleman Blvd.
IOP Connector

North Charleston:

Rivers Avenue
Ashley Phosphate
N. Rhett
I-526
I-26
Highway 52

Evacuation Routes State Route Numbers

SC ROUTE6
US ROUTE17
INTERSTATE ROUTE20
US ROUTE21
INTERSTATE ROUTE26
SC ROUTE41
SC ROUTE45
US ROUTE52
SC ROUTE61
SC ROUTE64
INTERSTATE ROUTE77
US ROUTE78
INTERSTATE ROUTE95
SC ROUTE125
SC ROUTE165

SC ROUTE171
SC ROUTE174
US ROUTE176
US ROUTE178
US ROUTE261
US ROUTE278
SC ROUTE375
SC ROUTE402
SC ROUTE517
US ROUTE521
INTERSTATE ROUTE526
SC ROUTE700
SC ROUTE703

Please refer to the following website to obtain a map of these routes and others:

<http://www.scdot.org/getting/evacuation.shtml>

** If you do not recognize a route that will aid in your evacuation, please contact the South Carolina Highway department and they will assist you with an alternate route. These routes are not all inclusive.

SEVERE WEATHER PLAN

Appendix D Shelter Authorization Form

Employee Name: _____ Department: _____

Number of Dependents
Needing shelter: _____

Name of Dependents:	Relation:	Age:
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Reason:

Authorization Signature
(hospital executive director, the clinical department chairman,
college dean, or the appropriate Vice President)

Please fax completed form(s) to University Risk Management (2-6607).

SEVERE WEATHER PLAN

Appendix E

Boarding Facilities for Pets

Facility	Types of Animals	Location	Phone #
A Fresh & Fancy Kennel**	Dogs & Cattery	West Ashley	571-4433
All Good Dogs*	Lg. sm. Dogs/cattery	James Island	795-4533
Charleston Pet Resort**	Dogs, Cats, & small animals	West Ashley	763-0985
The Folly Road Animal Hospital	Dogs & Cats	James Island	792-4944
Howl A Day Inn of Trolley Road	Dogs & Cats	Summerville	875-2922

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* Will stay open in case of a major storm. It is recommended to call in advance to be put on a hurricane reservation list.

** Will serve existing clientele only.

Recommendations:

- Depending on the conditions, these clinics are subject to availability. Therefore, it is recommended you call in advance to reserve a place for your pet.
- These clinics have priority lists, as well as "first come first serve" lists. To increase your chance of boarding your pets, you should tell the clinics you are a MUHA/MUSC **designated** employee and must remain in Charleston during a storm.
- These clinics have priority lists, as well as "first come first serve" lists.
- It is also recommended you visit the facility first, and allow your pet to get used to the surroundings, before boarding your pet.

SEVERE WEATHER PLAN

Appendix F

The Water Factor & Wind Factor Category 1

Normal Forward Speed (15 mph) (At Mean Sea Level)

Wind Factor: Can building withstand 74-95 mph winds? (Not exceeding 30 ft.)
Measurements are in FT

THE WATER FACTOR				THE WIND FACTOR	Status*
Building	Estimated Storm Surge	Ground Floor Elevation	Depth of Surge		
Strom Thurmond	8.2	13	-4.8	Y	RO
Hollings Cancer Center (Lobby)	8.2	6.34	1.86	Y	RO
Student Wellness (Lower Level)	8.2	6.3	1.9	Y	RO
Psych Hospital	8.2	11.7	-3.5	Y	RO
Harborview Office Tower	8.2	13.6	-5.4	Y	RO
Psych Institute	8.2	11.7	-3.5	Y	RO
College of HP (Building A)	8.2	15.7	-7.5	Y	RO
College of HP (Building B)	8.2	13.2	-5.0	Y	RO
Clinical Science Bldg	8.2	11	-2.8	Y	RO
Storm Eye Institute	8.2	11	-2.8	Y	RO
Public Safety Building	8.2	10	-1.8	Y	RO
Colbert Education Center & Library	8.2	11	-2.8	Y	RO
Basic Science Bldg	8.2	11	-2.8	Y	RO
Rutledge Tower	8.2	8.21	-0.01	Y	RO
Walton Research Bldg	8.2	7.40	-0.8	Y	RO
Quad F	8.2	10.11	-1.91	Y	RO
RT Annex	8.2	7.82	-0.38	Y	RO
Quad E	8.2	10.11	-1.91	Y	RO
Main Hospital	8.2	11	-2.8	Y	RO
Children's Hospital (CH)	8.2	11	-2.8	Y	RO
Central Energy Plant	8.2	16.4	-8.2	Y	RO
Ashley River Tower	8.2	17.0	-8.8	Y	RO
Charleston Memorial Hospital	8.2	11.20	-3.0	Y	RO

Sources: 1) Sea, Lake, and Overland Surges from Hurricanes (SLOSH) Model; Department of the Army, Corps of Engineers
2) Ground Elevation Data & emergency power data; MUSC Engineering and Facilities Department
3) Wind Data; MUSC Engineering and Facilities Department

*RO: Restricted Occupancy

SEVERE WEATHER PLAN

The Water Factor & Wind Factor
 Category 2
 Normal Forward Speed (15 mph)
 (At Mean Sea Level)

Wind Factor: Can building withstand 96-110 mph winds? (Not exceeding 30 ft.)
Measurements are in FT

THE WATER FACTOR				THE WIND FACTOR	Status*
Building	Estimated Storm Surge	Ground Floor Elevation	Depth of Surge		
Strom Thurmond	12.1	13	-0.9	Y	RO
Hollings Cancer Center (Lobby)	12.1	6.34	5.76	Y	RO
Student Wellness (Lower Level)	12.1	6.3	5.8	Y	Closed
Psych Hospital	12.1	11.7	0.4	Y	RO
Harborview Office Tower	12.1	13.6	-1.5	Y	RO
Psych Institute	12.1	11.7	.04	Y	RO
College of HP (Building A)	12.1	15.7	-3.6	Y	RO
College of HP (Building B)	12.1	13.2	-1.1	Y	RO
Clinical Science Bldg	12.1	11	1.1	Y	RO
Storm Eye Institute	12.1	11	1.1	Y	RO
Public Safety Building	12.1	10	2.1	Y	RO
Colbert Education Center & Library	12.1	11	1.1	Y	RO
Basic Science Bldg	12.1	11	1.1	Y	RO
Rutledge Tower	12.1	8.21	3.89	Y	RO
Walton Research Bldg	12.1	7.40	4.7	Y	RO
Quad F	12.1	10.11	1.99	Y	RO
RT Annex	12.1	7.82	4.28	Y	RO
Quad E	12.1	10.11	1.99	Y	RO
Main Hospital	12.1	11	1.1	Y	RO
Children's Hospital (CH)	12.1	11	1.1	Y	RO
Central Energy Plant	12.1	16.4	-4.3	Y	RO
Ashley River Tower	12.1	17.0	-4.9	Y	RO
Charleston Memorial Hospital	12.1	11.20	0.9	Y	RO

Sources: 1) Sea, Lake, and Overland Surges from Hurricanes (SLOSH) Model;
 Department of the Army, Corps of Engineers
 2) Ground Elevation Data & emergency power data; MUSC Engineering and Facilities Department
 3) Wind Data; MUSC Engineering and Facilities Department

*RO: Restricted Occupancy

SEVERE WEATHER PLAN

The Water Factor & Wind Factor
 Category 3
 Normal Forward Speed (15 mph)
 (At Mean Sea Level)

Wind Factor: Can building withstand 111-130 mph winds? (Not exceeding 30 ft.)
 Measurements are in FT

THE WATER FACTOR				THE WIND FACTOR	Status*
Building	Estimated Storm Surge	Ground Floor Elevation	Depth of Surge		
Strom Thurmond	15.3	13	2.3	N	RO
Hollings Cancer Center (Lobby)	15.3	6.34	8.96	N	RO
Student Wellness (Lower Level)	15.3	6.3	9.0	N	Closed
Psych Hospital	15.3	11.7	3.6	N	RO
Harborview Office Tower	15.3	13.6	-1.7	N	RO
Psych Institute	15.3	11.7	3.6	N	RO
College of HP (Building A)	15.3	15.7	-.04	N	RO
College of HP (Building B)	15.3	13.2	2.1	N	RO
Clinical Science Bldg	15.3	11	4.3	N	RO
Storm Eye Institute	15.3	11	4.3	N	RO
Public Safety Building	15.3	10	5.3	N	Closed
Colbert Education Center & Library	15.3	11	4.3	N	RO
Basic Science Bldg	15.3	11	4.3	N	RO
Rutledge Tower	15.3	8.21	7.09	N	RO
Walton Research Bldg	15.3	7.40	7.9	N	RO
Quad F	15.3	10.11	5.9	N	RO
RT Annex	15.3	7.82	7.48	N	RO
Quad E	15.3	10.11	5.9	N	Closed
Main Hospital	15.3	11	4.3	N	RO
Children's Hospital (CH)	15.3	11	4.3	N	RO
Central Energy Plant	15.3	16.4	-1.1	N	RO
Ashley River Tower	15.3	17.0	-1.7	N	RO
Charleston Memorial Hospital	15.3	11.20	4.1	N	RO

Sources: 1) Sea, Lake, and Overland Surges from Hurricanes (SLOSH) Model;
 Department of the Army, Corps of Engineers
 2) Ground Elevation Data & emergency power data; MUSC Engineering and Facilities Department
 3) Wind Data; MUSC Engineering and Facilities Department

*RO: Restricted Occupancy

SEVERE WEATHER PLAN

The Water Factor & Wind Factor
 Category 4
 Normal Forward Speed (15 mph)
 (At Mean Sea Level)

Wind Factor: Can Building withstand 131-155 mph winds? (Not exceeding 30 ft.)
Measurements are in FT

THE WATER FACTOR				THE WIND FACTOR	Status*
Building	Estimated Storm Surge	Ground Floor Elevation	Depth of Surge		
Strom Thurmond	18.9	13	5.9	N	RO
Hollings Cancer Center (Lobby)	18.9	6.34	12.56	N	RO
Student Wellness (Lower Level)	18.9	6.3	12.68	N	Closed
Psych Hospital	18.9	11.7	7.2	N	Closed
Harborview Office Tower	18.9	13.6	5.3	N	Closed
Psych Institute	18.9	11.7	7.2	N	Closed
College of HP (Building A)	18.9	15.7	3.2	N	RO
College of HP (Building B)	18.9	13.2	5.7	N	RO
Clinical Science Bldg	18.9	11	7.9	N	RO
Storm Eye Institute	18.9	11	7.9	N	Closed
Public Safety Building	18.9	10	8.9	N	Closed
Colbert Education Center & Library	18.9	11	7.9	N	RO
Basic Science Bldg	18.9	11	7.9	N	RO
Rutledge Tower	18.9	8.21	10.69	N	RO
Walton Research Bldg	18.9	7.40	11.5	N	Closed
Quad F	18.9	10.11	8.79	N	Closed
RT Annex	18.9	7.82	11.08	N	RO
Quad E	18.9	10.11	8.79	N	Closed
Main Hospital	18.9	11	7.9	N	RO
Children's Hospital (CH)	18.9	11	7.9	N	RO
Central Energy Plant	18.9	16.4	2.5	N	RO
Ashley River Tower	18.9	17.0	1.9	N	RO
Charleston Memorial Hospital	18.9	11.20	7.7	N	RO

Sources: 1) Sea, Lake, and Overland Surges from Hurricanes (SLOSH) Model; Department of the Army, Corps of Engineers
 2) Ground Elevation Data & emergency power data; MUSC Engineering and Facilities Department
 3) Wind Data; MUSC Engineering and Facilities Department

*RO: Restricted Occupancy

SEVERE WEATHER PLAN

The Water Factor & Wind Factor
 Category 5
 Normal Forward Speed (15 mph)
 (At Mean Sea Level)

Wind Factor: Can Building withstand 156+ mph winds? (Not exceeding 30 ft.)
Measurements are in FT

THE WATER FACTOR				THE WIND FACTOR	Status*
Building	Estimated Storm Surge	Ground Floor Elevation	Depth of Surge		
Strom Thurmond	21.6	13	8.6	N	RO
Hollings Cancer Center (Lobby)	21.6	6.34	15.26	N	Closed
Student Wellness (Lower Level)	21.6	6.3	15.3	N	Closed
Psych Hospital	21.6	11.7	9.9	N	Closed
Harborview Office Tower	21.6	13.6	8.0	N	Closed
Psych Institute	21.6	11.7	9.9	N	Closed
College of HP (Building A)	21.6	15.7	5.9	N	RO
College of HP (Building B)	21.6	13.2	8.4	N	RO
Clinical Science Bldg	21.6	11	10.6	N	Closed
Storm Eye Institute	21.6	11	10.6	N	Closed
Public Safety Building	21.6	10	11.6	N	Closed
Colbert Education Center & Library	21.6	11	10.6	N	RO
Basic Science Bldg	21.6	11	10.6	N	RO
Rutledge Tower	21.6	8.21	13.39	N	Closed
Walton Research Bldg	21.6	7.40	14.2	N	Closed
Quad F	21.6	10.11	11.49	N	Closed
RT Annex	21.6	7.82	13.78	N	Closed
Quad E	21.6	10.11	11.49	N	Closed
Main Hospital	21.6	11	10.6	N	RO
Children's Hospital (CH)	21.6	11	10.6	N	RO
Central Energy Plant	21.6	16.4	5.2	N	RO
Ashley River Tower	21.6	17.0	4.6	N	RO
Charleston Memorial Hospital	21.6	11.20	10.4	N	RO

Sources: 1) Sea, Lake, and Overland Surges from Hurricanes (SLOSH) Model; Department of the Army, Corps of Engineers
 2) Ground Elevation Data & emergency power data; MUSC Engineering and Facilities Department
 3) Wind Data; MUSC Engineering and Facilities Department

*RO: Restricted Occupancy

SEVERE WEATHER PLAN

The Water Factor & Wind Factor

Category 1

Fast Forward Speed (35 mph)

(At Mean Sea Level)

Wind Factor: Can Building withstand 74-95 mph winds? (Not exceeding 30 ft.)

Measurements are in FT

THE WATER FACTOR				THE WIND FACTOR	Status*
Building	Estimated Storm Surge	Ground Floor Elevation	Depth of Surge		
Strom Thurmond	9.5	13	-3.5	Y	RO
Hollings Cancer Center (Lobby)	9.5	6.34	3.16	Y	RO
Student Wellness (Lower Level)	9.5	6.3	3.2	Y	Closed
Psych Hospital	9.5	11.7	-2.2	Y	RO
Harborview Office Tower	9.5	13.6	-4.1	Y	RO
Psych Institute	9.5	11.7	-2.2	Y	RO
College of HP (Building A)	9.5	15.7	-6.2	Y	RO
College of HP (Building B)	9.5	13.2	-3.7	Y	RO
Clinical Science Bldg	9.5	11	-1.5	Y	RO
Storm Eye Institute	9.5	11	-1.5	Y	RO
Public Safety Building	9.5	10	-0.5	Y	RO
Colbert Education Center & Library	9.5	11	-1.5	Y	RO
Basic Science Bldg	9.5	11	-1.5	Y	RO
Rutledge Tower	9.5	8.21	1.29	Y	RO
Walton Research Bldg	9.5	7.40	2.1	Y	RO
Quad F	9.5	10.11	-0.61	Y	RO
RT Annex	9.5	7.82	1.68	Y	RO
Quad E	9.5	10.11	-0.61	Y	RO
Main Hospital	9.5	11	-1.5	Y	RO
Children's Hospital (CH)	9.5	11	-1.5	Y	RO
Central Energy Plan	9.5	16.4	-6.9	Y	RO
Ashley River Tower	9.5	17.0	-7.5	Y	RO
Charleston Memorial Hospital	9.5	11.20	-1.7	Y	RO

Sources: 1) Sea, Lake, and Overland Surges from Hurricanes (SLOSH) Model;

Department of the Army, Corps of Engineers

2) Ground Elevation Data & emergency power data; MUSC Engineering and Facilities Department

3) Wind Data; MUSC Engineering and Facilities Department

RO: Restricted Occupancy

SEVERE WEATHER PLAN

The Water Factor & Wind Factor

Category 2

Fast Forward Speed (35 mph)

(At Mean Sea Level)

Wind Factor: Can Building withstand 96-110 mph winds? (Not exceeding 30 ft.)

Measurements are in FT

THE WATER FACTOR				THE WIND FACTOR	Status*
Building	Estimated Storm Surge	Ground Floor Elevation	Depth of Surge		
Strom Thurmond	13.7	13	0.7	Y	RO
Hollings Cancer Center (Lobby)	13.7	6.34	7.36	Y	RO
Student Wellness (Lower Level)	13.7	6.3	7.4	Y	Closed
Psych Hospital	13.7	11.7	2.0	Y	RO
Harborview Office Tower	13.7	13.6	0.1	Y	RO
Psych Institute	13.7	11.7	2.0	Y	RO
College of HP (Building A)	13.7	15.7	-2.0	Y	RO
College of HP (Building B)	13.7	13.2	0.5	Y	RO
Clinical Science Bldg	13.7	11	2.7	Y	RO
Storm Eye Institute	13.7	11	2.7	Y	RO
Public Safety Building	13.7	10	3.7	Y	RO
Colbert Education Center & Library	13.7	11	2.7	Y	RO
Basic Science Bldg	13.7	11	2.7	Y	RO
Rutledge Tower	13.7	8.21	5.49	Y	RO
Walton Research Bldg	13.7	7.40	6.3	Y	RO
Quad F	13.7	10.11	3.59	Y	RO
RT Annex	13.7	7.82	5.88	Y	RO
Quad E	13.7	10.11	3.59	Y	RO
Main Hospital	13.7	11	2.7	Y	RO
Children's Hospital (CH)	13.7	11	2.7	Y	RO
Central Energy Plant	13.7	16.4	-2.7	Y	RO
Ashley River Tower	13.7	17.0	-3.3	Y	RO
Charleston Memorial Hospital	13.7	11.20	2.5	Y	RO

Sources: 1) Sea, Lake, and Overland Surges from Hurricanes (SLOSH) Model;

Department of the Army, Corps of Engineers

2) Ground Elevation Data & emergency power data; MUSC Engineering and Facilities Department

3) Wind Data; MUSC Engineering and Facilities Department

RO: Restricted Occupancy

SEVERE WEATHER PLAN

**The Water Factor & Wind Factor
Category 3**

**Fast Forward Speed (35 mph)
(At Mean Sea Level)**

Wind Factor: Can Building withstand 111-130 mph winds? (Not exceeding 30 ft.)
Measurements are in FT

THE WATER FACTOR				THE WIND FACTOR	Status*
Building	Estimated Storm Surge	Ground Floor Elevation	Depth of Surge		
Strom Thurmond	17.2	13	4.2	N	RO
Hollings Cancer Center (Lobby)	17.2	6.34	10.86	N	RO
Student Wellness (Lower Level)	17.2	6.3	10.9	N	Closed
Psych Hospital	17.2	11.7	5.5	N	RO
Harborview Office Tower	17.2	13.6	3.6	N	RO
Psych Institute	17.2	11.7	5.5	N	RO
College of HP (Building A)	17.2	15.7	1.5	N	RO
College of HP (Building B)	17.2	9.8	7.4	N	RO
Clinical Science Bldg	17.2	11	6.2	N	RO
Storm Eye Institute	17.2	11	6.2	N	RO
Public Safety Building	17.2	10	7.2	N	Closed
Colbert Education Center & Library	17.2	11	6.2	N	RO
Basic Science Bldg	17.2	11	6.2	N	RO
Rutledge Tower	17.2	8.21	8.99	N	RO
Walton Research Bldg	17.2	7.40	9.8	N	RO
Quad F	17.2	10.11	7.09	N	Closed
RT Annex	17.2	7.82	9.38	N	RO
Quad E	17.2	10.11	7.09	N	Closed
Main Hospital	17.2	11	6.2	N	RO
Children's Hospital (CH)	17.2	11	6.2	N	RO
Central Energy Plant	17.2	16.4	0.8	N	RO
Ashley River Tower	17.2	17.0	0.2	N	RO
Charleston Memorial Hospital	17.2	11.20	6.0	N	RO

- Sources: 1) Sea, Lake, and Overland Surges from Hurricanes (SLOSH) Model;
Department of the Army, Corps of Engineers
2) Ground Elevation Data & emergency power data; MUSC Engineering and Facilities Department
3) Wind Data; MUSC Engineering and Facilities Department

RO: Restricted Occupancy

SEVERE WEATHER PLAN

The Water Factor & Wind Factor

Category 4

Fast Forward Speed (35 mph)

(At Mean Sea Level)

Wind Factor: Can Building withstand 131-155 mph winds? (Not exceeding 30 ft.)

Measurements are in FT

THE WATER FACTOR				THE WIND FACTOR	Status*
Building	Estimated Storm Surge	Ground Floor Elevation	Depth of Surge	_____	
Strom Thurmond	21.2	13	8.2	N	RO
Hollings Cancer Center (Lobby)	21.2	6.34	14.86	N	RO
Student Wellness (Lower Level)	21.2	6.3	14.9	N	Closed
Psych Hospital	21.2	11.7	9.5	N	Closed
Harborview Office Tower	21.2	13.6	7.6	N	Closed
Psych Institute	21.2	11.7	9.5	N	Closed
College of HP (Building A)	21.2	15.7	5.5	N	RO
College of HP (Building B)	21.2	13.2	8.0	N	RO
Clinical Science Bldg	21.2	11	10.2	N	RO
Storm Eye Institute	21.2	11	10.2	N	Closed
Public Safety Building	21.2	10	11.2	N	Closed
Colbert Education Center & Library	21.2	11	10.2	N	RO
Basic Science Bldg	21.2	11	10.2	N	RO
Rutledge Tower	21.2	8.21	12.99	N	Closed
Walton Research Bldg	21.2	7.40	13.8	N	Closed
Quad F	21.2	10.11	11.09	N	Closed
RT Annex	21.2	7.82	13.38	N	Closed
Quad E	21.2	10.11	11.09	N	Closed
Main Hospital	21.2	11	10.2	N	RO
Children's Hospital (CH)	21.2	11	10.2	N	RO
Central Energy Plant	21.2	16.4	4.8	N	RO
Ashley River Tower	21.2	17.0	4.2	N	RO
Charleston Memorial Hospital	21.2	11.20	10.0	N	RO

Sources: 1) Sea, Lake, and Overland Surges from Hurricanes (SLOSH) Model;

Department of the Army, Corps of Engineers

2) Ground Elevation Data & emergency power data; MUSC Engineering and Facilities Department

3) Wind Data; MUSC Engineering and Facilities Department

RO: Restricted Occupancy

SEVERE WEATHER PLAN

The Water Factor & Wind Factor

Category 5

Fast Forward Speed (35 mph)

(At Mean Sea Level)

Wind Factor: Can Building withstand 155+ mph winds? (Not exceeding 30 ft.)

Measurements are in FT

** Recommendation: If possible, close entire campus and evacuate*

THE WATER FACTOR				THE WIND FACTOR	Status*
Building	Estimated Storm Surge	Ground Floor Elevation	Depth of Surge		
Strom Thurmond	24.7	7.71	16.99	N	Closed
Hollings Cancer Center (Lobby)	24.7	6.34	18.36	N	Closed
Student Wellness (Lower Level)	24.7	6.3	18.4	N	Closed
Psych Hospital	24.7	11.7	13.0	N	Closed
Harborview Office Tower	24.7	13.6	11.1	N	Closed
Psych Institute	24.7	11.7	13.0	N	Closed
College of HP (Building A)	24.7	15.7	9.0	N	Closed
College of HP (Building B)	24.7	13.2	11.5	N	Closed
Clinical Science Bldg	24.7	11	13.7	N	Closed
Storm Eye Institute	24.7	11	13.7	N	Closed
Public Safety Building	24.7	10	14.7	N	Closed
Colbert Education Center & Library	24.7	11	13.7	N	RO
Basic Science Bldg	24.7	11	13.7	N	Closed
Rutledge Tower	24.7	8.21	16.49	N	Closed
Walton Research Bldg	24.7	7.40	17.3	N	Closed
Quad F	24.7	10.11	14.59	N	Closed
RT Annex	24.7	7.82	16.88	N	Closed
Quad E	24.7	10.11	14.59	N	RO
Main Hospital	24.7	11	13.7	N	RO
Children's Hospital (CH)	24.7	11	13.7	N	RO
Central Energy Plant	24.7	16.4	8.3	N	RO
Ashley River Tower	24.7	17.0	7.7	N	RO
Charleston Memorial Hospital	24.7	11.20	13.5	N	Closed

Sources: 1) Sea, Lake, and Overland Surges from Hurricanes (SLOSH) Model; Department of the Army, Corps of Engineers

2) Ground Elevation Data & emergency power data; MUSC Engineering and Facilities Department

3) Wind Data; MUSC Engineering and Facilities Department

RO: Restricted Occupancy