

HURRICANE PREPARENESS

PRESENTED BY:
OFFICE OF EMERGENCY MANEGEMENT

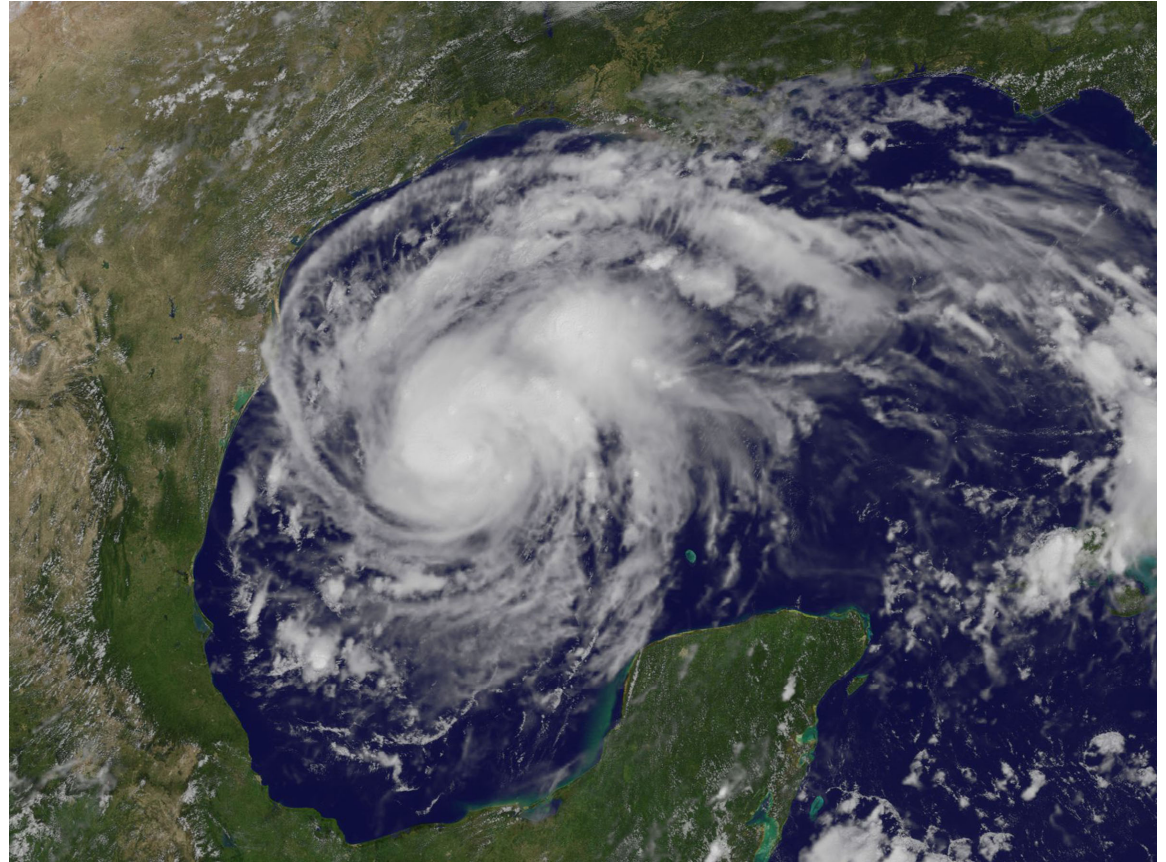


PRESENTATION OVERVIEW

HURRICANE BASICS

HURRICANE PREPAREDNESS

OEM RESOURCES



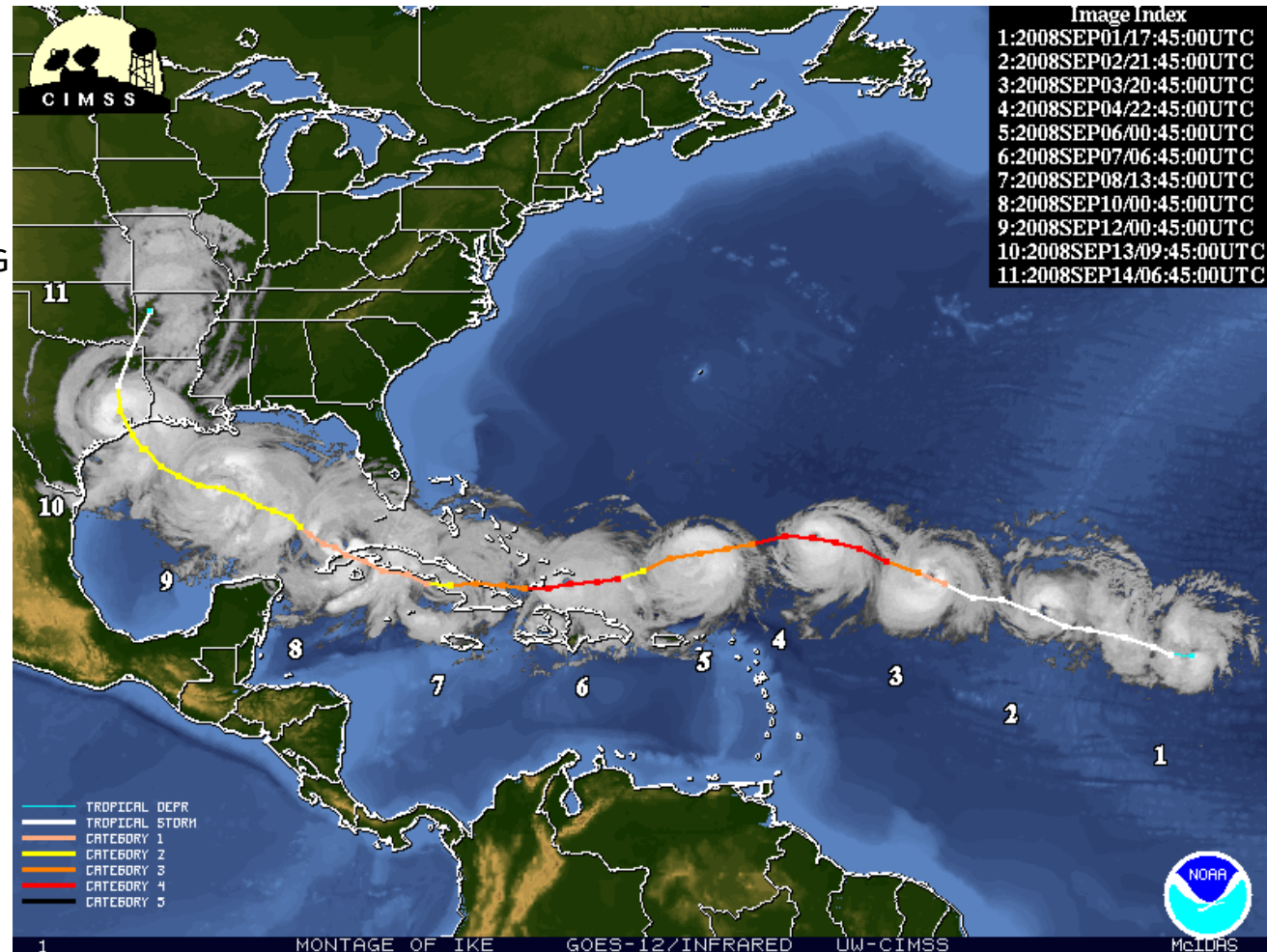
HURRICANE BASICS

- **TROPICAL DEPRESSION:**
 - WINDS: 38 MPH OR LESS
- **TROPICAL STORM:**
 - WINDS: 39 TO 73 MPH
- **HURRICANE:**
 - WINDS: 74 MPH OR HIGHER
- **MAJOR HURRICANE:**
 - WINDS: 111 MPH OR HIGHER,
CORRESPONDING - CATEGORY 3, 4 OR 5

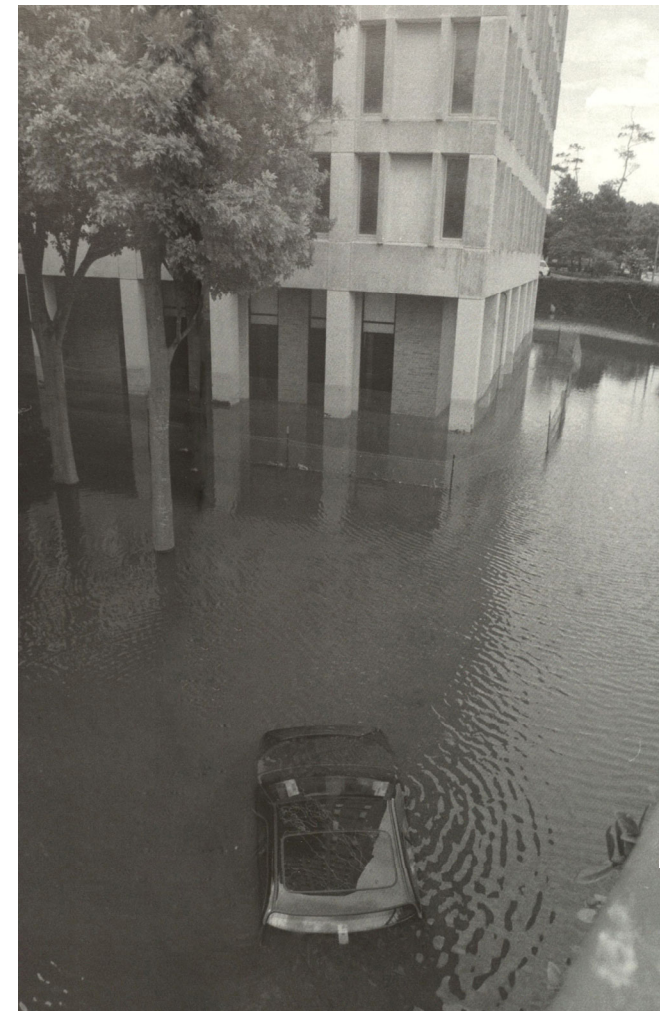


HURRICANE HAZARDS

- HIGHWINDS
- STORM SURGE AND STORM TIDE
- HEAVY RAINFALL AND INLAND FLOODING
- TORNADOS



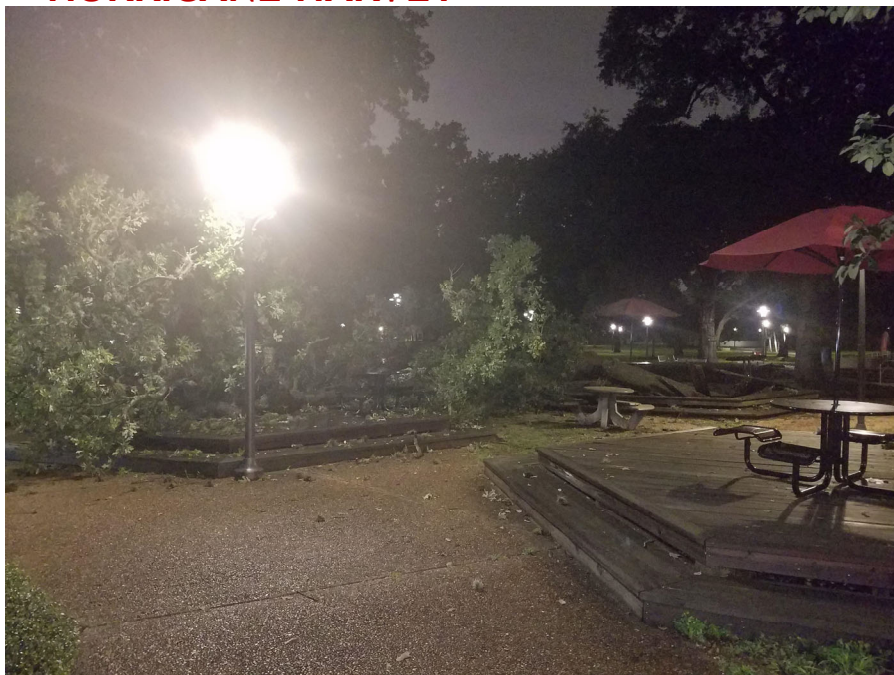
TROPICAL STORM ALLISON



HURRICANE IKE



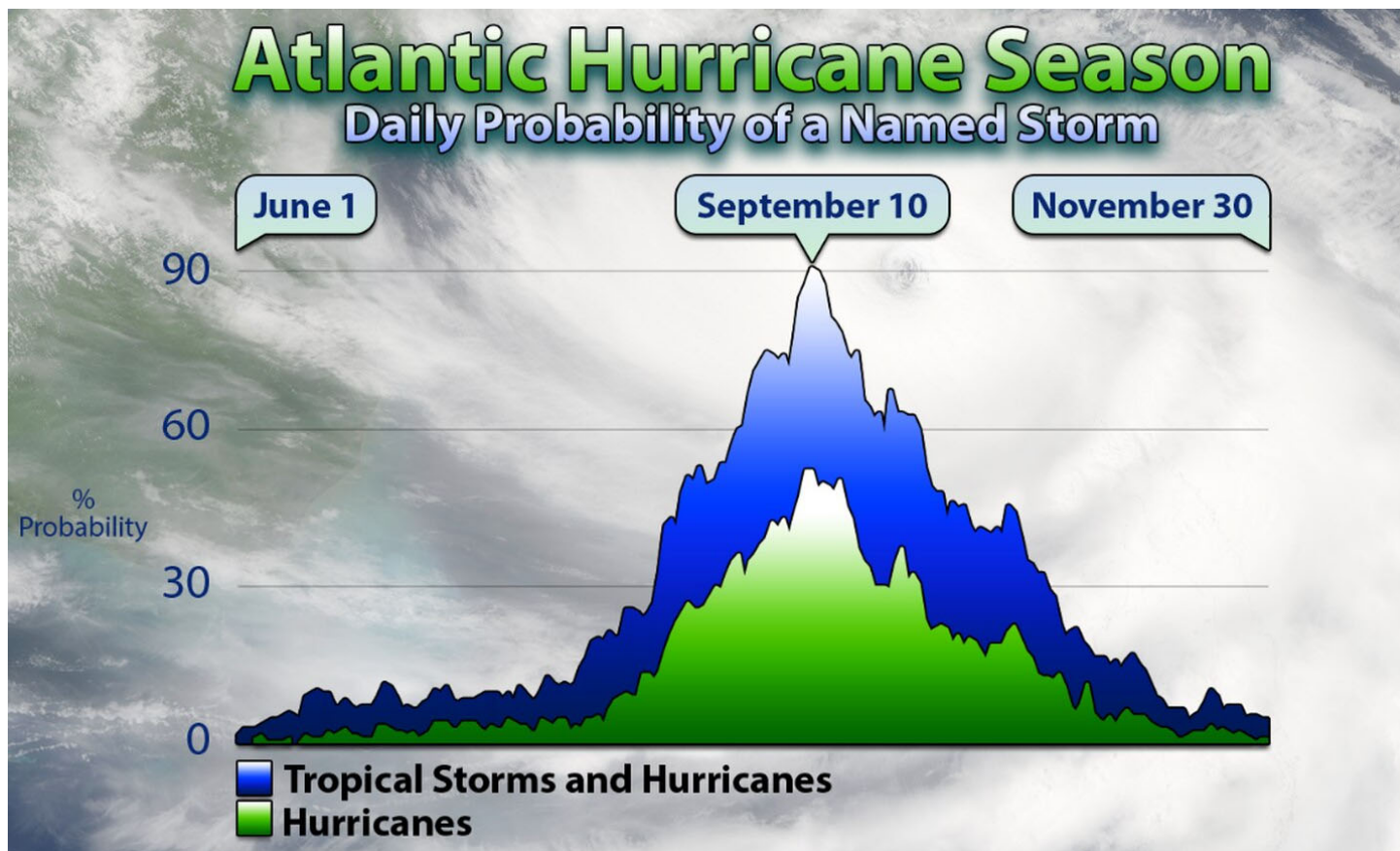
HURRICANE HARVEY



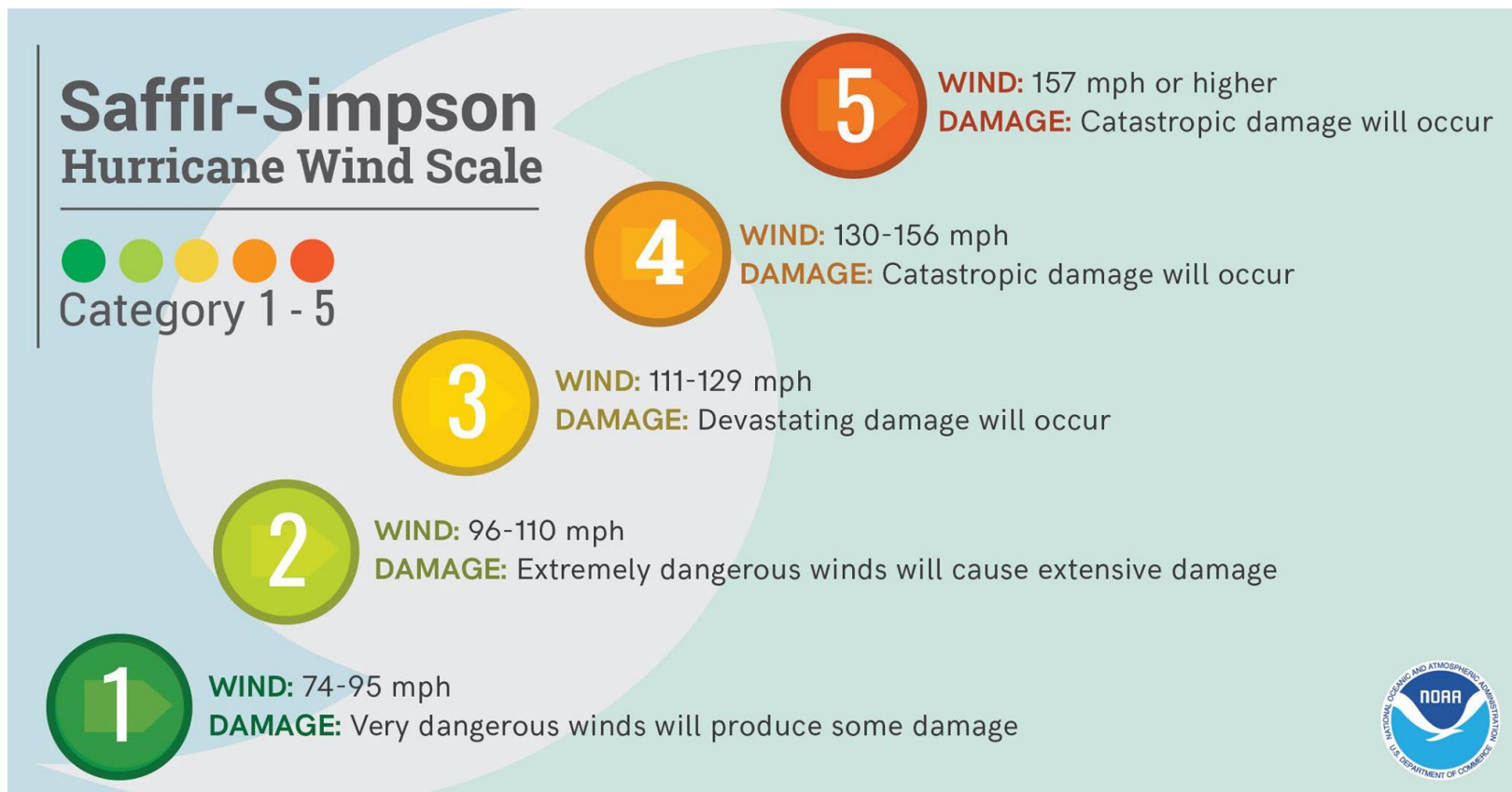
<https://www.youtube.com/watch?v=YzQGgyrxXil>



ATLANTIC HURRICANE SEASON



SAFFIR-SIMPSON HURRICANE WIND SCALE





TROPICAL WATCHES & WARNINGS

WATCH PHASE – 48 Hours Out

TROPICAL STORM WATCH

Tropical Storm force winds are **possible** in the watch area generally within **48 hours**.

HURRICANE WATCH

Hurricane force winds are **possible** in the watch area generally within **48 hours**.

STORM SURGEWATCH

The **possibility** of life-threatening inundation from rising water moving inland from the shoreline (storm surge flooding) somewhere within the specified area, generally within **48 hours**.

WARNING PHASE – 36 Hours Out

TROPICAL STORM WARNING

Tropical Storm force winds are **expected** in the specified area generally within **36 hours**.

HURRICANE WARNING

Hurricane force winds are **expected** in the specified area generally within **36 hours**.

STORM SURGEWARNING

The **danger** of life-threatening inundation from rising water moving inland from the shoreline (storm surge flooding) somewhere within the specified area, generally within **36 hours**.

PREPAREDNESS

Be Prepared



Make a Plan



Build a Kit



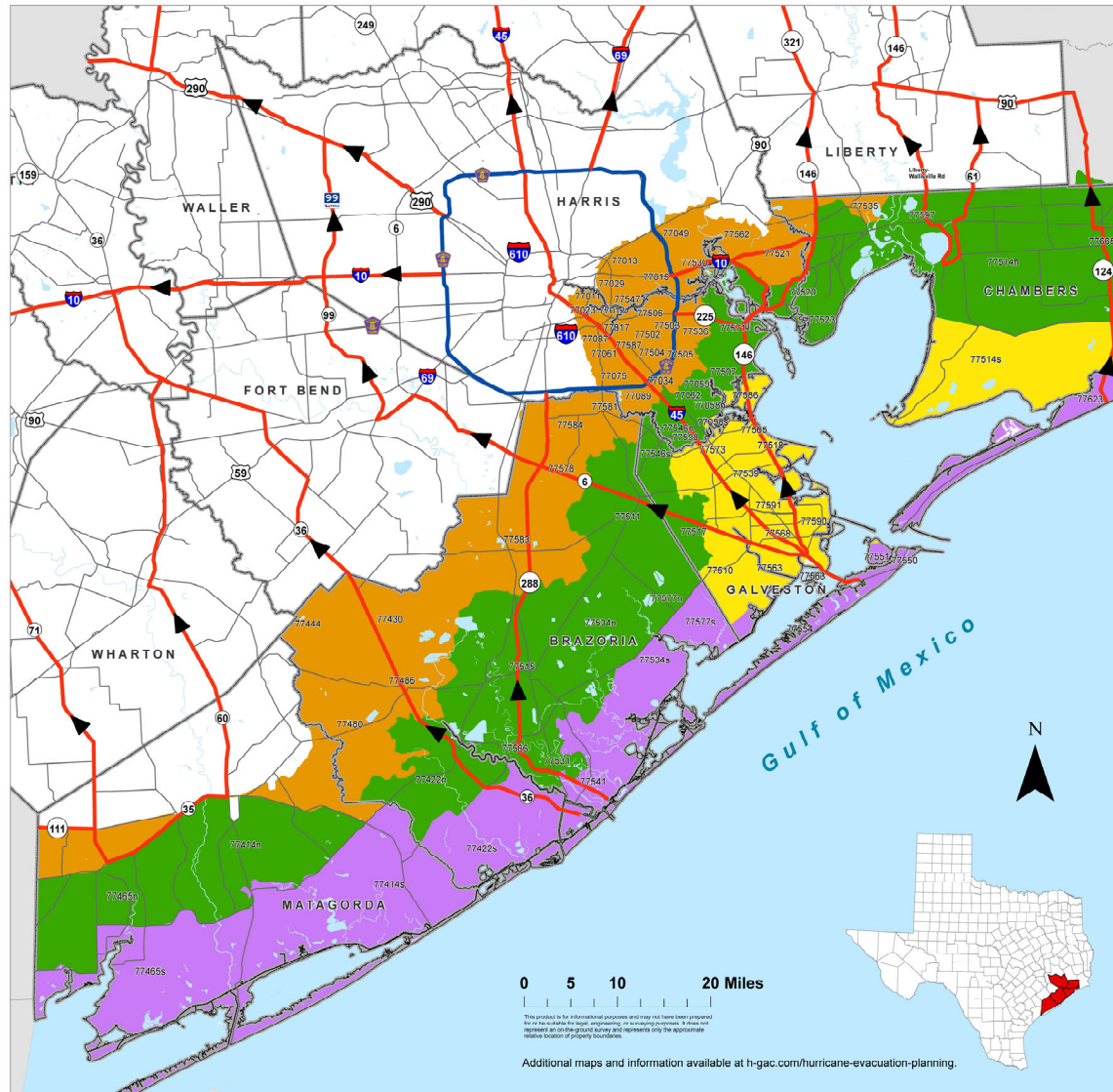
Stay Informed

STEP 1: HAVE A PLAN!

- If in an evacuation zone:
 - Determine where you will go, how you will get there AND how long it will take you
 - Leave when directed by local officials
- If not in an evacuation zone:
 - Follow sheltering guidelines
 - Determine a safe room in home
 - Fortify house
 - Assist those with special needs
- Assess your insurance coverages before hurricane season begins on June 1st







Brazoria, Chambers, Galveston, Harris, and Matagorda Hurricane Evacuation Zip-Zones Coastal, A, B, C




ZIP ZONE COASTAL				
77414s	77422s	77465s	77534s	77541
77550	77551	77554	77563	77577s
77623				
ZIP ZONE A				
77058s	77510	77514s	77518	77539
77563	77565	77568	77573	77586
77590	77591			
ZIP ZONE B				
77058n	77059	77062	77414n	77422n
77465n	77507	77511	77514n	77515
77517	77520	77523	77531	77534n
77546n	77546s	77560	77566	77571
77577n	77597	77598	77665	
ZIP ZONE C				
77011	77012	77013	77015	77017
77023	77029	77034	77049	77061
77075	77087	77089	77430	77444
77480	77486	77502	77503	77504
77505	77506	77521	77530	77535
77536	77547	77562	77578	77581
77583	77584	77587		

Some zip codes are split into north (n) and south (s) for evacuation purposes

Route Designation

-  Evacuation Corridors
-  Evacuation Connections
-  Other Roads
-  County Boundary



 Revision Date: March 31, 2022
 Expiration Date: December 31, 2022
 Map Created by:
 Houston-Galveston Area Council

WHAT TO DO: PRE-STORM

- Monitor tropical weather forecasts during hurricane season
- Monitor Official UH communications and notices regarding potential tropical weather threats at www.uh.edu/emergency
- Review personal hurricane plans
- Review and replenish personal emergency supplies
- Stock up on nonperishable food
- Check batteries
- Keep your vehicle fuel tank at least half full throughout hurricane season
- Take storm preparations at your home by reinforcing and securing loose furniture
- Board up all windows and glass doors
- Make arrangements and prepare family members and pets for the storm or an evacuation
- Register for City/County alert system to receive local updates

WHAT TO DO: DURING THE STORM

- Stay Indoors
- Stay away from flood waters
- Be aware of the “eye”
- Be alert for tornadoes
- Monitor local/city alerts & listen to Emergency Alert System/radio channels

WHAT TO DO: AFTER THE STORM:

- Do not re-enter area until it is declared safe
- Use flashlight to inspect for damage
- Wear protective clothing, sunscreen, and bug repellent
- Wear gloves and proper PPE
- Be aware of potential mold
- Check on neighbors
- If you use a generator, take safety precautions
- Stay away from downed powerlines
- Listen to local/city updates and EAS/radio

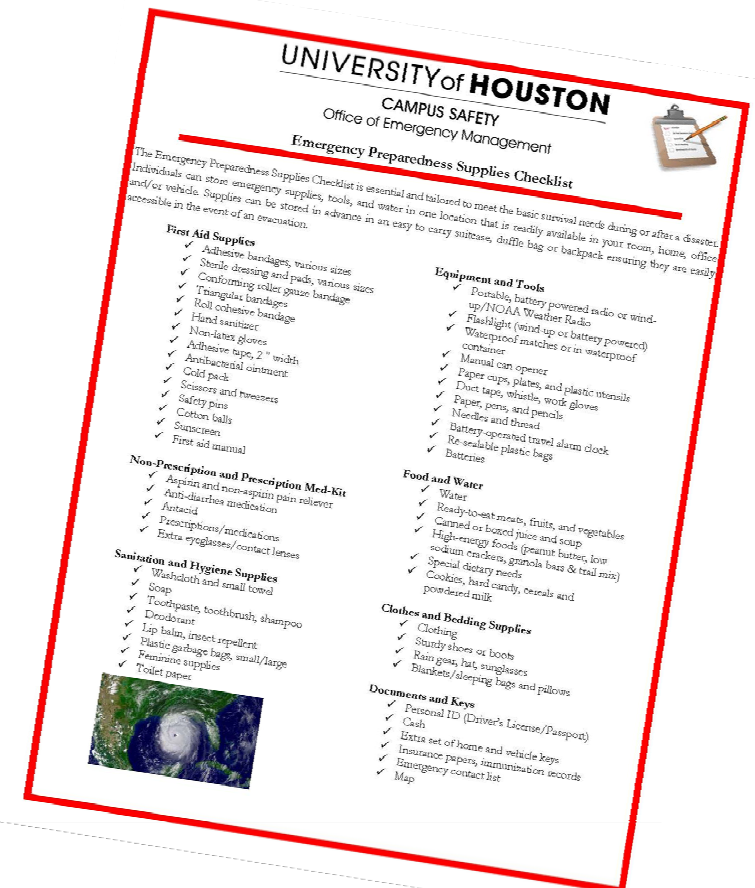
STEP 2: BUILD AN EMERGENCY KIT

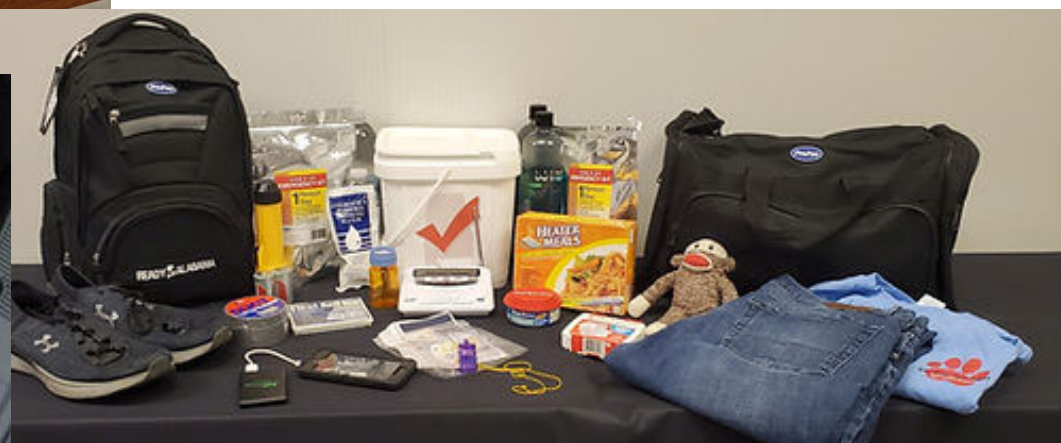
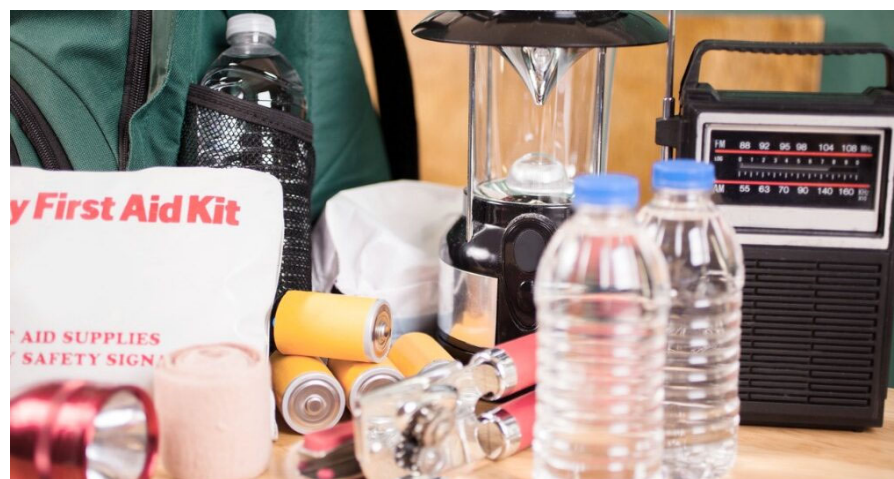
Tips:

- Enough supplies for at least 3 days
- Recommended 3 to 7 days
- Prepare a “Go-bag”
- Shelter in Place Kit for your room/office

Include:

- First Aid Kit
- Non-Prescription and Prescription Med-Kit
- Sanitation and Hygiene Supplies
- Equipment and Tools
- Food and Water
- Clothes and Bedding Supplies
- Documents and Keys





STEP 3: STAY INFORMED!

University of Houston offers many ways to stay informed with our emergency notification system – UH ALERT

- UH ALERT Channels:
 - UH ALERT website: www.uh.edu/emergency
 - E-mail
 - Text Messaging
 - UH ALERT Facebook
 - UH ALERT Twitter
 - University of Houston main webpage
 - Digital Signage
 - UH Go App
 - UH Sirens



How to stay informed in the Houston area:

- NOAA Weather Radio
- Local News
- Radio Stations:
 - KTRH 740 AM
 - KUHF 88.7 FM
- Listen to local Officials
- Register for City/County alert system



HOW DOES UH PREPARE FOR HURRICANES?

- Annual review of hurricane plans before June 1st
- Training or Exercises conducted to test plans and response
- Ride Out Team Program
 - Groups that support response and continuity of the University's essential functions during a hurricane
 - Remain on campus working to ensure critical infrastructure components are uninterrupted
 - Training/credentialing required before hurricane season begins
- Emergency Operations Center
 - Monitors tropical activity and activates if a storm threatens the greater Houston area
 - Communication, information and resource coordination “hub”
- Veoci Incident Management System
 - Online system used for situational awareness, documentation and virtual communication with campus leadership and partners
 - Used for all Ride Out Events as well as any time the Emergency Operations Center is Activated

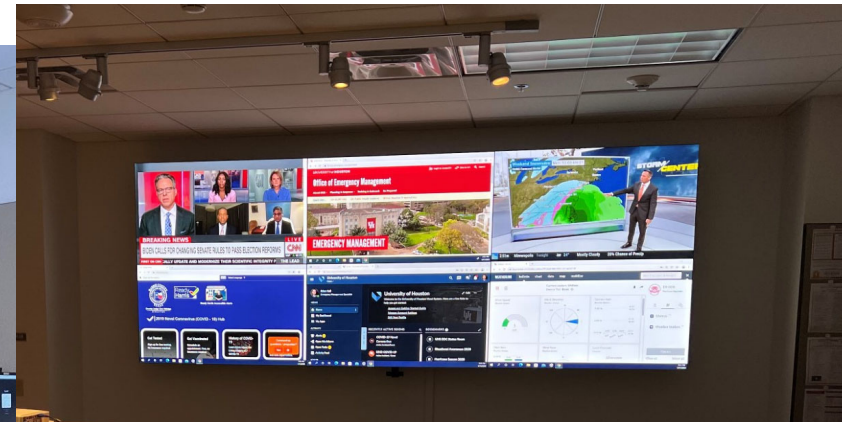
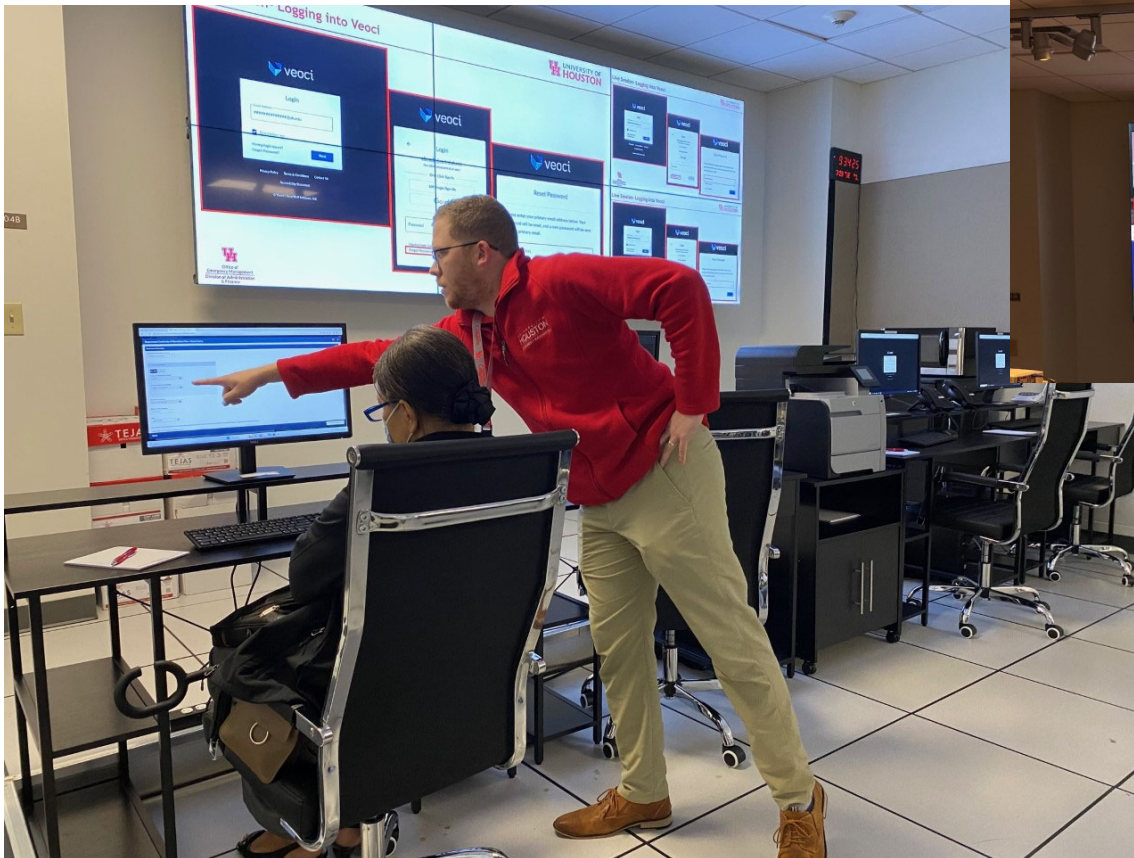


University of Houston
Hurricane Response Guide
2022



UNIVERSITY OF HOUSTON
RIDE OUT TEAM GUIDE

UH EMERGENCY OPERATIONS CENTER



SHELTER IN PLACE EMERGENCY

An emergency where it is unsafe to be outdoors and requires you to seek immediate shelter.



Severe Weather/Tornado Warning:

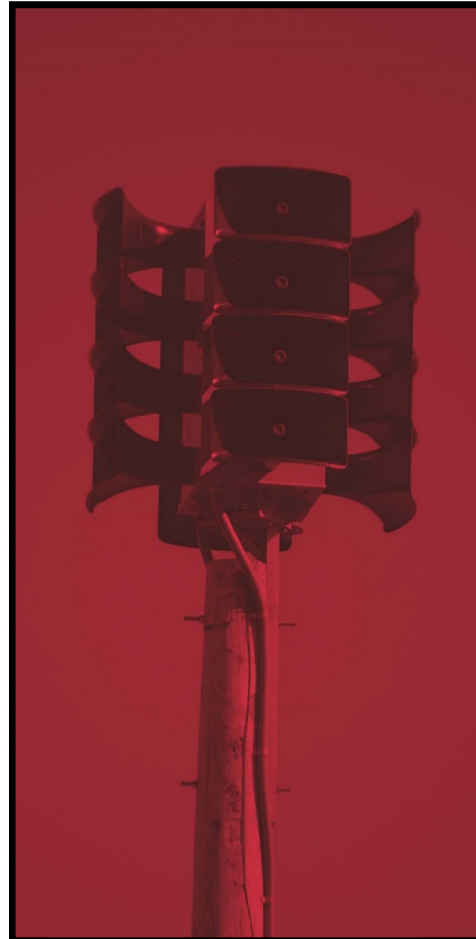
- Seek shelter indoors in an interior room away from windows, and on the lowest floor possible.
- Check www.uh.edu/emergency or other UH ALERT channels for shelter in place directives for the UH campus.

Hazardous Material Release (HAZMAT):

- May be asked to Evacuate or Shelter in Place depending on the nature of the emergency.
- If asked to shelter in place, move indoors to a windowless room away from hazardous materials and cover the vents if possible.
- Wait for an “All Clear” before leaving your safe space.

UH OUTDOOR WARNING SIREN SYSTEM

Used in an emergency where it is unsafe to be outdoors & requires you to seek immediate shelter.



UH OUTDOOR WARNING SIREN

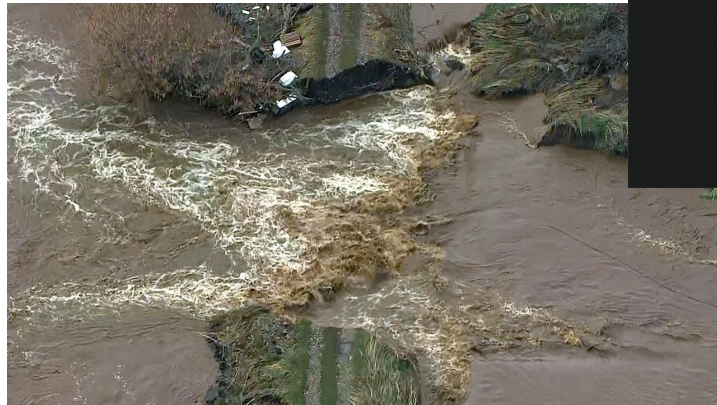
WHEN THE SIREN SOUNDS:

- Seek Shelter Indoors
- Check email or Text
- See the UH Emergency website, uh.edu/emergency for more information

UNIVERSITY of **HOUSTON**

CAMPUS SAFETY
Office of Emergency Management

SHELTER IN PLACE EMERGENCIES



OEM RESOURCES

POSSIBLE HAZARDS



Active Shooter



Severe Weather



Fire

Winter Weather



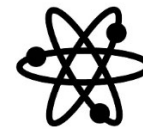
Hurricane



Extreme Heat



Flood



Hazardous Material Release



www.uh.edu/oem



UNIVERSITY OF HOUSTON OFFICE OF EMERGENCY MANAGEMENT

We are always here for any questions or concerns you may have!



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Phone: 832-842-0583



Evan Broadbent
Emergency Management Specialist
Email: elbroadb@central.uh.edu
Phone: 713-743-0682

Space Survey

Woody Sutton



- April 24 – 28 Training
- May 1 – June 16 Survey Open
- July 5 – August 4 Space Management Review/Data Clean Up
- August 4 – 9 Push Data into AiM

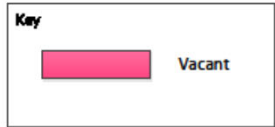
- New UH Space Use Codes

- 3154 Private Corridor
- 3155 Mothers Room
- 3156 Quiet Room

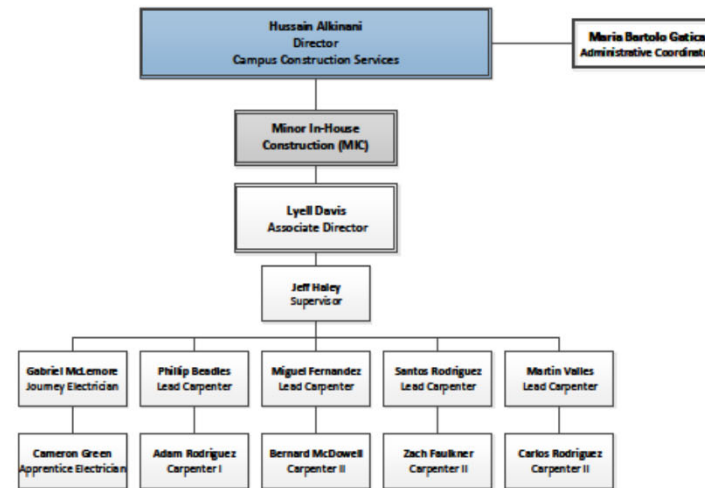
MIC
Lyell Davis

- Minor In House Construction Project Support and Execution for the UH Campus Community
 - The Team
 - What services we provide
 - Why we provide the services
 - How the services are provided

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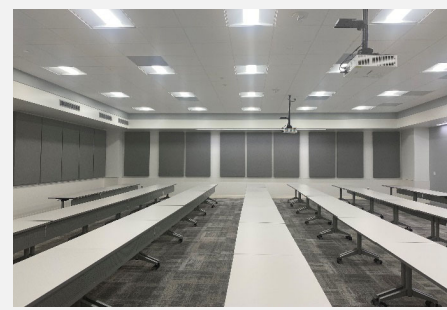
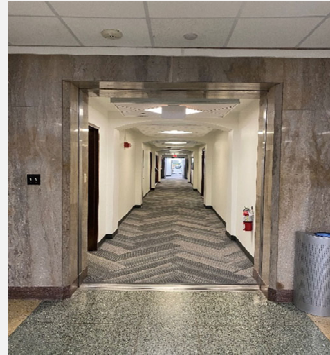
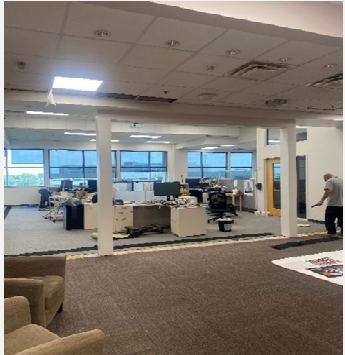
02/20/2023



Building Coordinator Program

“Building Futures, Maintaining Excellence”

UNIVERSITY of HOUSTON



MIC Provide Project Support and Execution for Classrooms, Offices, Conference Rooms, Break Rooms, Labs, Exterior Ramps, Decks, Site Equipment, etc.

Building Coordinator Program

“Building Futures, Maintaining Excellence”

- Minor In House Construction (MIC) is able to provide project support and execution for interior and exterior alteration/refresh projects in a shorter period of time and lower cost vs going to an outside contractor.
- Contract Execution time is reduced
- Formal bids are usually not required based on overall project cost

- HOW WE EXECUTE THE PROJECTS
- End User submits work request
- Department DBA reviews request, approves work request and assigns cost center for billing
- Project is assigned to Triage or MIC depending on the scope and size
- MIC contacts end user, conduct site walk if required to develop scope
- MIC provides estimate for review and approval
- End user reviews and approves the budget and scope
- MIC gets the Signature Authorization to schedule and execute the project
- MIC will execute all required permits and subcontracts as required

Moves & Events

Ana De Los Reyes

Moves & Events

UH Moves and Events provides moving and event support for the campus community.

M&E provides the following services:

- Moving office furniture and other items from one administrative or academic location to another or within the same office.
- Rearrange office furniture.
- Removal or relocation of equipment, furniture, or other items.
- Transfer of items to and from the [UH Surplus Property and Warehouse](#). Please read the [UH Department Procedures for Transfers to Surplus Property](#) before submitting your request.
- Items available for rent include: 20 ft. x 20 ft. tents, 60" (5 ft.) round and 30" x 72" rectangular tables, chairs, 50-gallon garbage and recycling bins.

Important Details Regarding M&E Requests

- UH Moves and Events drops off and picks up garbage bins for events but does not service them. If garbage bins must be service throughout or after the event, the request must include this in their request.
- UH Moves and Events does not assist with room reservations. This is handled by [UH Office of the University Registrar](#).
- For outdoor events, please consult with [UH Fire Life and Safety](#) to ensure your event location is not blocking any fire lanes and complies with all [UH Fire Life and Safety](#) regulations.
- Same-day pickup is required for all outdoor events.

Upcoming Changes

- Effective Change Date: **May 1, 2023**
- Current Process: Work request must be submitted to Customer Service at least (3) days before the event.
- Upcoming Change: SR should be submitted at least 2 weeks in advance to allow time for the requestor's Department DBA approval and give the shop at least 1 week for planning and scheduling once the WO is generated.

Process for Submitting M&E Requests

- Use the 4 Ways to FIXIT to submit your service request.
- Following the submission of your request, we may follow-up by email or phone with any questions we may have regarding your request.
- We will do our best to accommodate requests made less than two weeks in advance.

Questions

TEMPERATURE GUIDELINES & SETPOINTS

Anise Al Assar

CONTENT

- **University Houston Temperature Guidelines.**
- **Temperature Set Point.**
- **Set Point Schedule.**
- **Set Back Hours.**
- **BMS & HVAC Service Request Response Time.**
- **Q&A.**

University Temperature Guidelines

- These Guidelines are the University of Houston Facilities' heating/cooling temperature set points and ranges.
- These guidelines aim to improve the comfort of building occupants, save energy, reduce operating costs, and reduce the University's carbon footprint.
- These are based on ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) Standard 55-Thermal Environmental Conditions for Human Occupancy. This standard identifies the thermal comfort zone where 80% or more of occupants are comfortable.

Temperature Set Point

- **Set-Point** is the target value at which a controller attempts to maintain the temperature value.
- Temperature set points for campus buildings is as follows:
 - A. Occupied Spaces
 - Cooling Season – 74°F
 - Heating Season - 70°F
 - B. Unoccupied Spaces
 - All Seasons – 78°F

Set-Point schedule & Range

	Summer Set Point (cooling)	Acceptable Temperature Range - Summer	Winter Set Point (heating)	Acceptable Temperature Range - Winter
Occupied Space	74 °F	70 - 78 °F	70 °F	68 - 74 °F
Unoccupied Space	78 °F	76 - 80 °F	60 °F	58 - 62 °F
Residence Hall Suites and Rooms*	72 °F	68 - 76 °F	70 °F	66 - 74 °F
Setback Hours	78 °F	76 - 80 °F	60 °F	58 - 62 °F

<https://www.uh.edu/facilities-services/services/temperature-control/set-point-guidelines-4-12-2022.pdf>

Set Back Hours / After Hours

- F/CM implements setback hours in order to achieve further energy savings.
- Set back hours 10 PM – 7 AM Monday through Friday, and 10 PM Friday through 7 AM Monday morning.
- During Set Back Hours, the systems may be shut off or cycle on and off to maintain these adjusted setback temperatures and conserve energy.

BMS/HVAC

Service Request Response Time

- Temperature adjustments are classified as a priority 2 service request.
- Priority 2 service requests will be addressed within 7 business days.

ANY QUESTION ?