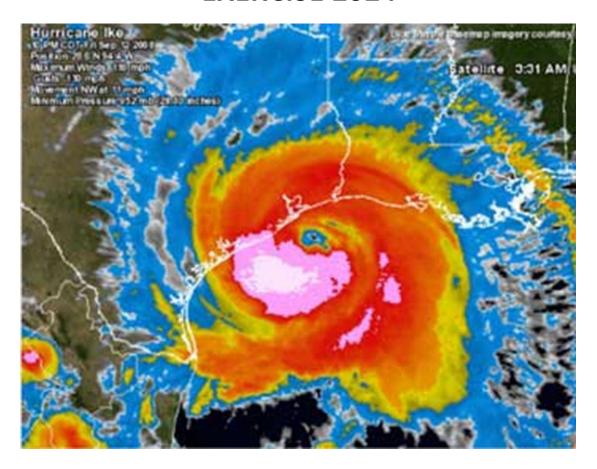




HURRICANE ABYSS FUNCTIONAL EXERCISE 2024



After Action Report and Improvement Plan (AAR-IP)

The After-Action Report and Improvement Plan (AAR/IP) summarizes exercise information required for preparedness reporting and trend analysis by aligning exercise objectives with preparedness doctrine, related frameworks, and national guidance. This information is compiled into recommendations and corrective actions in the improvement plan to improve local and regional preparedness, response, and recovery activities.

EXERCISE OVERVIEW

Exercise Name	Hurricane Abyss		
Exercise Date	May 23, 2024		
Scope	This exercise is a functional exercise, planned for May 23, 2024, at SETRAC, CMOC. Exercise play is limited to CMOC staff on site and participating facilities at their respective locations.		
Mission Area	Response		
Capabilities	 Capability 1: Foundation of Healthcare and Medical Response Capability 2: Health Care and Medical Response Coordination Capability 4: Medical Surge 		
Objectives	 CMOC demonstrates its capability to efficiently share information across various roles in response to a hurricane based upon CMOC Basic Plan. CMOC demonstrates the ability to effectively organize/coordinate patient transports and balance loads promptly in response to patient surge and evacuations in response to a hurricane based upon CMOC Basic Plan. CMOC demonstrates its capability to efficiently deliver clear and concise messages to facilities in response to a hurricane based upon CMOC Basic Plan. CMOC ensures facilities are informed about whom to contact for information and how to request resources or assistance in response to a hurricane based upon CMOC Basic Plan. CMOC ensures facilities utilize EM Resource, EM Track, and Web EOC with minimal difficulty in response to a Hurricane based on CMOC Basic Plan. 		
Hazard	Hurricane		
Scenario	A major hurricane is expected to impact the Texas Gulf Coast within 72 hours. Impacts may be experienced across Trauma Service Areas H, Q, and R.		
Sponsor	SETRAC HPP		

Exercise Name

Hurricane Abyss

Primary Audience

This exercise is intended to test acute care facilities, first responder agencies, local emergency management, and public health agencies in their ability to respond to and manage a major weather event.

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EXERCISE SCENARIOS

A major hurricane is expected to impact the Texas Gulf Coast within 72 hours. Impacts may be experienced across Trauma Service Areas H, Q, and R.

CAPABILITY PERFORMANCE RATINGS

Aligning exercise objectives and preparedness capabilities provides a consistent taxonomy for evaluation that transcends individual exercises to support preparedness reporting and trend analysis nationwide. The core capabilities include Operational Coordination, Critical Transportation, Public Health and Medical Services, and Mass Care Services; however, the table below include performance ratings for each Health Care Preparedness and Response capability objective written by the planning team and observed with average ratings based on the evaluator notes during the exercise.

Table 1: Summary of Health Care Preparedness & Response Capability Performance Ratings

Capability	Exercise Objectives	Rating	
Foundation for Healthcare and Medical Readiness	CMOC ensures facilities utilize EM Resource, EM Track, and Web EOC with minimal difficulty in response to a Hurricane based on CMOC Basic Plan.		
Healthcare and Medical Response Coordination	CMOC demonstrates the ability to effectively organize/coordinate patient transports and balance loads promptly in response to patient surge and evacuations in response to a hurricane based upon CMOC Basic Plan.		
Healthcare and Medical Response Coordination	CMOC demonstrates its capability to efficiently deliver clear and concise messages to facilities in response to a hurricane based upon CMOC Basic Plan.		
Healthcare and Medical Response Coordination	CMOC ensures facilities are informed about whom to contact for information and how to request resources or assistance in response to a hurricane based upon CMOC Basic Plan.		
Healthcare and Medical Response Coordination	CMOC demonstrates its capability to efficiently share information across various roles in response to a hurricane, based upon CMOC Basic Plan.		
Medical Surge	CMOC demonstrates the ability to effectively organize/coordinate patient transports and balance loads promptly in response to patient surge and evacuations in response to a hurricane based upon CMOC Basic Plan.	S	

Capability	Exercise Objectives	Rating
Medical Surge	CMOC ensures facilities are informed about whom to contact for information and how to request resources or assistance in response to a hurricane based upon CMOC Basic Plan	S

Ratings Definitions:

- Performed without Challenges (P): The targets and critical tasks associated with the core capability were completed in a manner that achieved the objective(s) and did not negatively impact the performance of other activities. Performance of this activity did not contribute to additional health and/or safety risks for the public or for emergency workers, and it was conducted in accordance with applicable plans, policies, procedures, regulations, and laws.
- Performed with Some Challenges (S): The targets and critical tasks associated with the core capability were completed in a manner that achieved the objective(s) and did not negatively impact the performance of other activities. Performance of this activity did not contribute to additional health and/or safety risks for the public or for emergency workers, and it was conducted in accordance with applicable plans, policies, procedures, regulations, and laws. However, opportunities to enhance effectiveness and/or efficiency were identified.
- Performed with Major Challenges (M): The targets and critical tasks associated with the core capability were completed in a manner that achieved the objective(s), but some or all of the following were observed: demonstrated performance had a negative impact on the performance of other activities; contributed to additional health and/or safety risks for the public or for emergency workers; and/or was not conducted in accordance with applicable plans, policies, procedures, regulations, and laws.
- Unable to be Performed (U): The targets and critical tasks associated with the core capability were not performed in a manner that achieved the objective(s).

ANALYSIS OF CAPABILITY OBJECTIVES

This section provides a summary of observations for each objective evaluated with its corresponding capability. The observations are compiled below as either strengths or areas for improvement with an analysis of factors identified and discussed by participants, then recorded by exercise evaluators.

Capability 1: Foundation of Healthcare and Medical Response

Objective:

1. CMOC ensures facilities utilize EMResource, EMTrack, and WebEOC with minimal difficulty in response to a Hurricane based on CMOC Basic Plan.

Strengths:

- Capability to advise the region on the correct process for asset requests.
- Skill in utilizing technological platforms to provide region-wide updates on current situations and situational awareness.
- Timely utilization of technological platforms to gather hospital bed status information, facilitating appropriate patient movement across the region as necessary.

Areas for Improvement:

- The STAR process experienced delays due to a combination of system bugs and insufficient training among CMOC personnel.
 - o **Analysis**: There were issues with the WEBEOC system's routing of STAR requests to the correct entities. Additionally, frequent staff turnover and a lack of understanding of the workaround process to locate STAR request contributed to the delays.
- STAR requests were delayed because they were difficult to locate.
 - o **Analysis**: There was a lack of understanding the need to capture the STAR Number when placing request, making it difficult for CMOC staff to find the request.

Capability 2: Health Care and Medical Response Coordination

Objective:

- 1. CMOC demonstrates the ability to effectively organize/coordinate patient transports and balance loads promptly in response to patient surge and evacuations in response to a hurricane based upon CMOC Basic Plan.
- 2. CMOC demonstrates its capability to efficiently deliver clear and concise messages to facilities in response to a hurricane based upon CMOC Basic Plan.
- 3. CMOC ensures facilities are informed about whom to contact for information and how to request resources or assistance in response to a hurricane based upon CMOC Basic Plan.

Strengths:

- Effective communication among partners and CMOC within the healthcare system facilitated the identification of appropriate patient movements throughout the region.
- Organized communication among CMOC positions ensured clear delivery of plans throughout the region.

Areas for Improvement:

- Identification and incorporation of trained staff for rotation in Command Staff Positions
 - Analysis: Major turnover in staff who held critical positions, as well as the lack of sufficient training and tailored drills for specific functions and processes during CMOC activations, were identified as contributing factors.
- Facilities lack of understanding of CMOCs role throughout the region.
 - Analysis: Also identified as a contributing factor, personnel turnover at facilities contributed to lack of training and education on CMOCs roles and plans throughout the region
- Failure to forward information to other positions within the CMOC.
 - Analysis: Calls not consistently reaching the intended recipient and a lack of understanding about CMOC operations resulted in a situation where information was withheld instead of being passed on to the appropriate parties.

Capability 4: Medical Surge

Objective:

- 1. CMOC ensures facilities are informed about whom to contact for information and how to request resources or assistance in response to a hurricane based upon CMOC Basic Plan.
- 2. CMOC ensures facilities utilize EMResource, EMTrack, and WebEOC with minimal difficulty in response to a Hurricane based on CMOC Basic Plan.

Strengths:

- The use of technological platforms enabled a robust response to medical surges across the region.
- Experienced leaders guided the organization and facilitated patient movement throughout the region.
- Up-to-date briefings helped with load balancing throughout the healthcare system.

Areas for Improvement:

- Communication of medical surge plan and roles throughout the region
 - o **Analysis**: Regional partners identified a gap in understanding how roles and responsibilities will evolve during an activation.
- Need to re-socialize the CMOC plans to the region.
 - o **Analysis:** Participants highlighted the necessity for more frequent and in-depth training on incident response in the region.

Regional Improvement Plan

This Improvement Plan (IP) was developed with the following recommendations and corrective actions for the Regional Healthcare Preparedness Coalition (RHPC) based on the Hurricane Abyss Functional Exercise conducted on May 23, 2024.

Capability	Recommendations	Corrective Actions	Capability Element	Responsible Party	Projected Completion Date
Healthcare and Medical Response Coordination	Increased education and drills throughout the year involving CMOC operations.	Develop Single- functioning drills that walk through a specific process in the CMOC from beginning to end.	Training & Planning	SETRAC Training & Exercise	On-going
Foundation of Healthcare and Medical Response	Enhanced training and education for CMOC positions	Revise the CMOC 101 course for delivery to staff, focusing on different positions throughout the year	Training & Planning	SETRAC Training & Exercise	On-going
Medical Surge	Provide additional education and training on SETRAC's role throughout the region.	Deliver the CMOC 101 course throughout the region, focusing on highlighting different CMOC plans	Training & Planning	SETRAC Training & Exercise	On-going

Authorizing Signature:	Date:
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PARTICIPATING ORGANIZATIONS

Facility/Agency

Acadian EMS

Altus Houston Hospital

Altus Lumberton Hospital

America's ER-Cypress

Baptist Beaumont Hospital

Beaumont Emergency Hospital

CHG Cornerstone Hospital Conroe

CHI St. Luke's Health Lakeside

CHI St. Luke's Health Memorial -San Augustine

CHI St. Luke's Health Memorial-Livingston

CHI St. Luke's Health Memorial-Lufkin

CHI St. Luke's Patients Medical Center

CHI St. Luke's Springwoods Village

CHI St. Luke's Sugar Land

CHI St. Luke's The Woodlands

Children's Memorial Hermann

Christus Jasper

Christus St. Elizabeth

Christus St. Mary's Outpatient ER

City of Houston Health

City of Houston OEM

City of Katy EOC

City of Seabrook EOC

City of Seabrook Fire Marshal

ClearSky Rehab Hospital of Baytown

Columbus Community Hospital

DSHS 6/5 South

El Campo Memorial Hospital

Elite Hospital Kingwood

Encompass Health Rehab Cypress

Encompass Health Rehab Humble

Encompass Health Rehab of Sugar Land

Encompass Health Rehab Pearland

Encompass Health Rehab The Woodlands

Encompass Health Rehab Vision Park

First Surgical Hospital

Fort Bend HHS

Gulf Coast Regional Blood Center

Harris County Health & Medical Desk

HCA Houston Healthcare Clear Lake

HCA Houston Healthcare Northwest

HCA Houston Healthcare Southeast

HCA Houston Healthcare Pearland

HCA Houston Healthcare Tomball

HCA Houston Healthcare West

HCA Texas Orthopedic

Houston Methodist Continuing Care

Houston Methodist Sugar Land

Houston Methodist The Woodlands

Houston Methodist TMC

Houston Methodist West

Houston Physicians Hospital

Huntsville Memorial Hospital

Kindred Northwest

Legent Hospital NW Houston

Liberty Dayton Regional Medical Center

Lyndon B. Johnson-Harris Health

Matagorda Regional Medical Center

Medical Center of SE TX

Memorial Hemann Pearland

Memorial Hermann Cypress

Memorial Hermann Greater Heights

Memorial Hermann Katy

Memorial Hermann Katy Rehab

Memorial Hermann Memorial City

Memorial Hermann Northeast

Memorial Hermann Pearland

Memorial Hermann Rockets Orthopedic

Memorial Hermann Southeast

Memorial Hermann Southwest

Memorial Hermann Sugar Land

Memorial Hermann System

Memorial Hermann Summer Creek Convenient Care

Cente

Memorial Hermann Kingwood Convenient Care Center

Memorial Hermann The Woodlands

Memorial Hermann TIRR

Memorial Hermann TMC

Michael DeBakey VA Medical Center

MidCoast Medical Center Bellville

Montgomery County Public Health

Nacogdoches Memorial Hospital

Nexus Children's The Woodlands

Nexus Specialty Hospital-Shenandoah

Oak Bend Medical Center

Oak Bend Medical Center-Wharton

Oak Bend Medical Center-Williams Way

Omnipoint Health Hospital

Orange County Health Services

Palacios Community Medical Center

PAM Health Clear Lake

PAM Health Clear Lake North

PAM Health Houston Heights

PAM Health Humble

PAM Health Sugar Land

PAM Humble

Parkside Surgery Center

Patients ER & Hospital

Rice Medical Center

Riceland Medical Center

River Oaks Hospital

Sabine County Hospital

Shriners Galveston

Spring Hospital

St. Joseph Medical Center

St. Michael's Elite Hospital

Sun Behavioral

Surgery Specialty Hospitals of America

Sweeny Community Hospital

Texas Children's Hospital-Main

Texas Children's Hospital-The Woodlands

Texas Children's Hospital-West

Texas Orthopedic Hospital

The Heights Hospital

The Woodlands Specialty Hospital

TOPS Surgical Specialty

Townsend Hospital

Tyler County Hospital

UT M.D. Anderson

UTHealth Houston

UTMB Galveston

UTMB League City

UTMB-Clear Lake

Woodlands Spring Hospital