

SETRAC After-Action Report/Improvement Plan

Hurricane Laura

SouthEast Texas Regional Advisory Council

10/1/20

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EVENT OVERVIEW

Event Name	Hurricane Laura			
Event Dates	August 23 – September 10, 2020			
Scope	Hurricane Laura was a strong Category 4 hurricane that made landfall near Cameron, Louisiana impacting the Southeast Texas Region.			
Mission Area(s) and Healthcare Preparedness Capabilities	 Health Care and Medical Response Coordination Continuity of Health Care Service Delivery Medical Surge 			
Issue Areas	Real-World Event Issues Areas for Coalition Members: Incident Command &Resource Management Information Sharing &Communications Medical Surge, Transportation Coordination, & Evacuation Continuity of Care			
Threat or Hazard	Hurricane			
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Executive Summary

Hurricane Laura made landfall near Cameron, Louisiana, around 12:00 AM CST on August 27. Laura was the strongest hurricane to ever make landfall along the Louisiana coast and was the first Category 4 landfall on record in southwestern Louisiana. Progressing inland across southwestern Louisiana, Laura produced destructive winds over a wide area, extending into Southeast Texas although the storm rapidly weakened as it progressed farther inland. Steady filling of the storm and the disappearance of its eye ensued throughout the day, and Laura weakened to a tropical storm by 11:00 AM CST about 50 mi east-southeast of Shreveport Louisiana.

The Catastrophic Medical Operation Center (CMOC) was activated at the Harris County Office of Emergency Management for 5 days at a level 1 activation. During the activation CMOC completed 362 missions and coordinated the movement of 1206 patients, evacuation of 25 Intermediate Care Facilities (ICF), 20 Nursing Homes, and 19 Assisted Living Facilities (ALF).

Major Strengths

The major strengths identified during this event are as follows:

- Many of the facilities who had to evacuate initiated their own evacuations to preidentified locations in advance of the storm's arrival.
- The CMOC's ability to adapt to the rapidly changing situation.
- Special Population facilities had provided early capabilities to receive both COVID and Non-COVID patients in the event placement was needed for evacuating facilities.

Primary Areas for Improvement

Throughout the event, several opportunities for improvement in CMOC's ability to respond to Hurricane Laura were identified. The primary areas for improvement, including recommendations, are as follows:

- Manifest delays and improper format from evacuating facilities. Multiple formats were received to include PDF and Screenshots.
- Following originally developed manifests without command coordination and approval for changes after issuance.
- Staff familiarity on Mission Task Board and updated on changes.
- · Staff coordination across the region avoiding duplication of effort.
- SitRep and other documents used by staff be made available as shareable documents.

AFTER ACTION REPORT METHODOLOGY AND DEVELOPMENT PROCESS

SETRAC conducted an electronic report to solicit information from its' coalition members due to social distancing efforts during the pandemic response period. These return reports provided a platform for regional stakeholders to give feedback into operations during hurricane Laura. A summary of the feedback was compiled into the After-Action Report (AAR) which is submitted for approval by SETRAC Leadership and filed with the State of Texas.

CMOC OPERATIONS OVERVIEW



SETRAC was closely monitoring the development of two named storms which were forecasted to have a significant impact along the Gulf Coast.

August 23, 2020: SETRAC completed staffing records in anticipation of an activation. Conference calls were made with the hospitals and the Special Populations groups to update them on the current status of the storm, projections for landfall and rain amounts, current response activities and recommendations for evacuation/shelter in place.

August 24, 2020: CMOC Activated at 0800 at a level 1 in support of Hurricane Laura. Both Voluntary and Mandatory evacuations will effective August 25, 2020. An estimated 385,000 people were under evacuation orders across Southeast Texas, including the entire city of Beaumont. SETRAC established Staging Operations at Ford Park in Beaumont Texas.

August 27, 2017: Hurricane Laura made Landfall just after midnight CST near Cameron Louisiana. Hurricane Laura caused widespread devastation throughout most of its path with tropical-storm force winds going over almost all of the Antillean Islands, hurricane and tropical-storm force winds impacting parts of Florida, Louisiana, Texas, Mississippi, and Arkansas, and flooding rain and storm surge affecting a large portion of the storm's path.

August 28, 2017: By August 28, Hurricane Laura was degraded to a tropical depression over central Arkansas; heavy rain became the primary threat across the region. During that time, the National Hurricane Center (NHC) had issued their final advisory on Laura.



August 29 - September 10, 2017

CMOC staff began to assess and demobilize resources that were utilized throughout the region, and development of repopulation plans. Assessment and demobilization of federal assets as applicable. Facilitated transportation back of displaced residents with medical needs and patients in hospitals/nursing homes that were evacuated by CMOC.

CMOC Operations

Coordinated movement of patients	1206
Missions conducted for patient movement	362
Nursing Homes/Assisted living facilities evacuate	64
EMTF 6 Agencies activated	21
Time CMOC Activated:	12 days



ANALYSIS OF HEALTHCARE PREPAREDNESS CAPABILITIES

Aligning healthcare preparedness capabilities provides a consistent taxonomy for evaluation of real-world events to support preparedness reporting and trend analysis. Table 1 includes aligned capabilities, and performance ratings for each capability as observed during the event and determined by incident command.

Objec	ctive	Healthcare Preparedness Capability	Performed without Challenges (P)	Performed with Some Challenge s (S)	Performed with Major Challenges (M)	Unable to be Performed (U)
a s ir a	Provide situational awareness of medical surge capability and nfrastructure and assist local urisdictions as needed.	Medical Surge		Х		
is aı he	Monitor capacity issues of evacuating and sheltering healthcare facilities and patient tracking.	Health Care and Medical Response Coordination	Х			
		Medical Surge	Х			
s e	Maintain readily deployable assets to support medical evacuation and staging operations.	Health Care and Medical Response Coordination	х			

CAPABILITIES AND TIMELINE

Capability 2: Healthcare and Medical Response Coordination

Objective 2: Monitor capacity issues of evacuating and sheltering healthcare facilities and patient tracking.

Strengths

The full capability level can be attributed to the following strengths:

Strength 1: The ability of CMOC to maintain situational awareness of evacuating healthcare facilities.

Strength 2: Identifying other medical needs to include O2, Hyperbaric Chambers, and PPE both in and out of the region.

Areas for Improvement

The following areas require improvement to achieve the full capability level:

None Identified

Objective 3: Maintain readily deployable assets to support medical evacuation and staging operations.

Strengths

The full capability level can be attributed to the following strengths:

Strength 1: Rostering and deploying the Emergency Medical Task Force (EMTF) in a timely and efficient manner.

Strength 2: The ability to identify mechanical issues with the assets, to include the deployment of personnel to perform maintenance and work around alternatives.

Areas for Improvement

The following areas require improvement to achieve the full capability level:

None Identified

Capability 4: Medical Surge

Objective 1: Provide situational awareness of medical surge capability and infrastructure and assist local jurisdictions as needed.

Strengths

The partial capability level can be attributed to the following strengths:

Strength 1: The ability of CMOC to identify bed availability and establish the proper mission task allowing for the transfer to an equal level of care facility and based upon the COVID status of the patient.

Strength 2: Multiple evacuating facilities had previously developed and activated facility evacuation plans prior to the storm's arrival. This pre-coordination allowed for a faster and safer evacuation of their patients and staff.

Strength 3: CMOC hosted daily conference calls to provide situational awareness to RHPC stakeholders

Areas for Improvement

The following areas require improvement to achieve the full capability level:

Area for Improvement 1: Adding the number of patients evacuated or repatriated to the Operational Period SitRep.

Analysis: This will ensure situational awareness for all staff members and provide reference points for follow on meetings and the After-Action Report (AAR).

Area for Improvement 2: Facilities need to ensure that contact information is updated in EMResource.

Analysis: Some facilities have failed to maintain current or updated information in EMResource, which resulted in delays for reaching some facilities across the region.

Objective 2: Monitor capacity issues of evacuating and sheltering healthcare facilities and patient tracking.

Strengths

The full capability level can be attributed to the following strengths:

Strength 1: Region participated in daily bed reports and status updates for facilities.

Strength 2: Utilized existing working relationships with the regions healthcare facilities provided a seamless coordination for evacuating and establishing placement.

Strength 3: Utilization of the Mission Task Board provided accountability for the movement and tracking of patients for CMOC Operations.

Areas for Improvement

The following areas require improvement to achieve the full capability level:

None Identified

SECTION 4: CONCLUSION

Hurricane Laura produced at least 16 tornadoes across the region. Laura became the first major hurricane to strike the mainland United States since Michael in October 2018. Due to preparations and coordination CMOC was able to successfully respond to the event with limited issues.

During the 12-day activation, CMOC coordinated the movement of over 1200 patients, completed 362 missions and evacuated 64 healthcare facilities. CMOC tasks included the tracking of open beds in hospitals, execution of evacuation protocols and patient transportation, managing ambulance staging operations, and meeting urgent healthcare needs. The success was possible also due to prior relationship building, planning, trainings, and exercises across our healthcare coalition. Most of the deaths associated with Hurricane Laura in Texas was due to carbon monoxide poisoning as a result of improperly placed generators.

APPENDIX A: IMPROVEMENT PLAN

This IP has been developed specifically for Southeast Texas Regional Advisory Council because of Hurricane Laura

Capability	Issue/Area for Improvement	Corrective Action	Capability Element ¹	Primary Responsible Organization	Start Date	Completion Date
Capability 4: Medical Surge	Duplication of effort and confusion amongst staff of work assignments.	Adding the number of patients evacuated or repatriated to the Operational Period SitRep	Planning	SETRAC	10/1/2020	1/30/2021
Cuigo	Facilities need to ensure that contact information is updated in EMResource	Facilities needs to ensure that contact information is updated in EMResource	Training	SETRAC	10/1/2020	On-going

¹ Capability Elements are: Planning, Organization, Equipment, Training, or Event.

APPENDIX B: HURRICANE LAURA PARTICIPATING AGENCIES/FACILITIES

1st CHOICE HEALTHCARE SERVICES

1st Texas Home Health

Alpine Home Health

A&L Health Care Services, LLC

A-1 Home Health Care

ABL HOMEHEALTH SERVICES INC.

Ac health services inc

Acadian Ambulance Service of Texas

AD Hospital East

ADVANCED HEALTHCARE SERVICES

Advantage Plus Homecare

Advocates for the Independent

AGAPE CARE LLC

AGRICH HEALTH SERVICES LLC

Algen Health LLC

All Care Home Health

Allegiance Mobile Health

Altus Baytoen Hospital

Altus Houston Hospital

Altus Lumberton Hospital

Andrea's Home Care

Angelina County & Cities Health District

Angelina County EOC

Apex Oaks at Cypress LLC

Arden Place of Houston

Arden Wood

Ashton Parke Care Center

At Your Side Home Care - NW Houston

Atrium Medical Center

A-UNC Healthcare Services DBA Adbright Healthcareservices, inc

Austin County EMS

Avondale House

Baptist Beaumont Hospital

Bayou Pines Care Center

Bayside Community Hospital/Chambers Health

Baywind Village Skilled Nursing & Rehab

Beach House Assisted Living at the Meridian

BEACON HOME HEALTH AGENCY, LLC

Beaumont Nursing and Rehab

Behavioral Hospital of Bellaire

Bellaire Home Health Care

BELOVED HOME HEALTH SERVICES

Ben Taub Hospital

Bernadette Fields Healthcare

BEST DOMINION HEALTHCARE SERVICES, INC.

BETHINA HEALTHCARE LLC

BJ Living Center,Inc

BLISSFUL HEALTHCARE SERVICES, INC.

Blue Star Hospice Inc

Brazos Towers at Bayou Manor

Bridgecrest Rehabilitation Suites

Bridgemoor Transitional Care

Brookdale Willowbrook Place

Burke Center

CAMBRIDGE HEALTH AND REHABILITATION CENTER

Caring People, Ltd. Co.

Caring Senior Service of Houston

Castle Pines

Catholic Healthcare Initiatives

Central Emergency Medical Service, Inc

Chambers County

Chandra Wells HCS

CHI Memorial San Augustine

CHI ST Luke's Health Memorial Lufkin

CHI St Luke's Health-Brazosport

CHI St. Luke's Health Memorial Livingston

Christus Dubuis Hospital of Beaumont

CHRISTUS St Elizabeth

CHRISTUS St. Mary Outpatient Center ER

Citizen Care Home Health Inc

Cleveland Health Care Center

Clute LTC dba Woodlake

CNE Home Health Services, Inc.

CNJ HOMECARE

Coastal Health & Wellness

College Street Health Care Center

Columbus Community Hospital

Comfy Home, Inc.

Commitment To Caring

Consolidated Home Health

Cornerstone Hospital

Cornerstone Hospital Conroe

Corrigan LTC Nursing and Rehabilitation

Country Village Care

Courtyard Nursing & Rehabilitation

Crescent Home Health Inc

Cypress Creek Hospital

Cypress Creek Rehabilitation

Cypress Pointe Health and Wellness

Cypress Woods Care Center

DaVita Med Center

DDMS of Houston, LLC

Debok Healthcare Inc

Deerbrook Skilled Nursing and Rehabilitation

DETCOG

Diversified health care inc

Dogwood Trails Manor

Eagle Lake Nursing and Rehabilitation

Ecare Medical Group

Eden Hospice Care Services Inc

Eden Memory Care

Eden's Reflection Assisted Living

Efficient Home Care, Inc

El Campo EMS

El Campo Memorial Hospital

Encompass Health

Encompass Health - Home Health - Beaumont

Encompass Health - Home Health - Livingston

Encompass health - Home Health - Lufkin

Encompass Health - Home Health - Nacogdoches

Encompass Health Katy

Encompass Health Rehab Hospital The Vintage

Encompass Health Rehabilitation Hospital of Cypress

Encompass Health Rehabilitation Hospital of Sugar Land

Encompass Health Vision Park

Encompass Health Woodlands

Evening Star Healthcare Inc

EXTRACARE HOME HEALTH SERVICES

Fall Creek Rehabilitation and Healthcare Center

First Choice In-Home Care Provider Agency

FKC Pearland Town Center

FKC Rosenberg

FKC Strawberry Park

FKC Texas Med Ctr Home

FKC West Houston

FMC Brazos

FMC Clearlake

FMC Galveston

FMC Pearland

FMC Texas Ave

Focused Care at Burnet Bay

Focused Care At Humble

Focused Care at Summer Place

Focused Care at Webster

Forest Cove ALF

Fresenius Alvin Dialysis Center

Fresenius Katy Dialysis

Fresenius Kidney Care - Beamer 100148

Fresenius Kidney Care - Jasper

Fresenius Kidney Care- Dickinson Dialysis

Fresenius Kidney Care Midtown/Houston

Fresenius Kidney Care-Baytown Home Clinic

Fresenius Southeast Kidney Center

Fresenius Sugarland

Fresenius West Pearland Dialysis

Fresenius West Rosenberg

Galleria Residence and Rehab

Galveston County ESD2

Galveston County Office Of Emergency Management

Galveston EMS

Galway Meadows Care Homr

Garden Terrace Alzheimer's Center of Houston

Garrison Nursing Home

Gevil Health Services

Gladkids LLC

Glo's Hope Corp

GOLDEN TRIANGLE EMERGENCY CENTER, LLC

Grace Care Center At Northpointe

Grace Care Center Cypress

Grace Care Center of Katy

Grace Extended RAL

Greenhill Villas

GULF COAST COMMUNITY HEATH SERVICES INC

Gulf Healthcare Center - Port Arthur

Hall's Personal Care

Hallmark

Harbor Hospice

Harbor Hospice of Southeast Houston

Harbor Hospice of Texas

Harmony Complete Care, LLC

Harris County ESD No. 5

Harris County ESD 4

Harris Health System

HCA Houston Healthcare Clear Lake

HCA Houston Healthcare Kingwood

HCA Houston Healthcare Tomball

HCA Houston Healthcare West

HCA Medical Center

Health Care Temporaries Inc

Healthpoint Home Health and Infusion Services

Hemphill Care Center

Heritage Villa Nursing and Rehabilitation

Highland Park Rehabilitation & Nursing Center

Holly Hall

Horizon Home Health Care

Hospice in the Pines

Hospice Plus- Beaumont

Houston Methodist Baytown Hospital

Houston Methodist Hospital

Houston Methodist Sugar Land

Houston Physicians Hospital

Houston Premier Surgery Center

Humble Fire Rescue

Huntington Healthcare & Rehabilitation

Huntsville Health Care Center

Huntsville Memorial Hospital

Independence Village

InnerWisdom, Inc.

Intrepid USA Healthcare Services

Jacinto Nursing & Rehabilitation Center

JOELELIJAH ADULT CARE INC NONE at

Just Real Kare

Kara Living Centers, Inc.

Kennedy Health and Rehabilitat

Kindred Hospital Clear Lake

Kindred Hospital Houston Medical Center

Kindred Hospital Houston Northwest

Kindred Hospital Sugar Land

Kingwood Emergency Hospital

Kingwood Memory & Assisted Living

Kingwood Pines Hospital

KOBI HEALTHSERVISES, LLC

Kountze Nursing Center

Ks Place Personal Care Home

LA Anchor Anchor Home

La Vita Bella

Lawrence Street Health Care Center

LBJ Hospital

Liberty Dayton RMC

Liberty Health Care Center

Lifecare Options Home Health Services, Inc.

LIFETIME HOMECARE SERVICES, LLC

Light Heart Memory Care-Webster

Loving Care Cottages

Lufkin State Supported Living Center

M&Y Extraordinary Care

MAJESTIK CARE PROVIDERS

MARLENA'S HOUSE

Matagorda Regional Medical Center

MEMEEHA, LLC

Memorial Hermann Cypress Hospital

Memorial Hermann Home Based Services

MEMORIAL HERMANN PEARLAND

Memorial Hermann Rehabilitation - Katy

Memorial Hermann Southwest

MEMORIAL HERMANN--SOUTHEAST

Memorial Hermann-TMC

Children's Memorial Hermann Hospital

Memorial Hermann Orthopedic and Spine Hospital

Memorial Hermann Children's Dialysis

Memorial Hermann TCF

MERCY ELDERLY ASSISTED LIVING INC

Mid Jefferson Extended Care Hospitals (Beaumont & Nederland)

Modesty Home Health

Mzee Home Care Services, LLC

Neuropsychiatric Center/The Harris Center for Mental Health and IDD

NEWCHANNEL HEALTHCARE SERVICES

Nexus Health

North Channel EMS

North Cypress Medical Center

OakBend Medical Center

Oakcare Hospice

Oakmont Healthcare & Rehabilitation Center of Humble

Oakmont of Katy

Oakmont of Katy Healthcare and Rehabilitation Center

Oakridge Assisted Living Home

Omega House/Avenue 360

OmegaLife Hospice of Texas

Optimum Personal Care Missouri City

Optimum Personal Care Sugar Land

Optimum Personal Care, Inc.

Option Care

Palacios Community Medical Center

Paradigm at Westbury

Paradise Care Center

Park Manor Cypress

Park Manor of Conroe

Park Manor of Quail Valley

Pathways Memory Care at Villa Toscana

Pebbleshire House

Pine Arbor

PINEHURST NURSING AND REHABILITATION

Post Acute Medical Rehabilitation Hospital of Humble

Prestige Living Center Inc

PROMED HOME CARE

Providian Health Care INC

regency village

Regent Care Center of Kingwood

Regent Care of League City

Regent Care The Woodlands

Resolutions Hospice

RESTORE HEALTH CARE SERVICES INC

Richard A. Anderson TSVH

Richmond Health Care Center

River Oaks Hospital and Clinics

River Kids Pediatric Home Health

Rollingbrook Rehab & Healthcare

Rosary Home Health, Inc.

ROSELAND HEALTHCARE SERVICES INC

Royal Care Community homes

Sabine County Hospital

Sacred Oak Medical Center

Santa Fe Fire & Rescue

SE TEXAS ER & HOSPITAL, LLP

Seabreeze Nursing & Rehabilitation

Seasons Hospice & Palliative Care of Texas - Houston

Seven Acres Jewish Senior Care Service

Shriners Galveston

Shriners Hospitals for Children

Silsbee Oaks Health Care LLP

Silverado Hermann Park

Silverado Hospice

Silverado Hospice - North Houston

Silverado-Hermann Park

Solera at West Houston

Southland Rehabilitation

Spanish Trail ALF of Silsbee

Specialty Wound & Ostomy Nursing

Spindletop Center

Spindletop Hill Nursing and Rehabilitation

Spring Creek Nursing & Rehab.

Spring Creek Village

Springwell Healthcare Services Inc

SSA Home Health Care

ST LUKES PATIENTS MEDICAL CENTER

St. James House of Baytown

St. Joseph Medical Center

Steadfast Home Companion Services

Sterling Oaks Rehabilitation

STJ HEALTH CARE SERVICES INC

Sugar Land Fire-EMS

Sugar Land Health Care Center

Sugar land Rehab Hospital

Summit Nursing and REhab

Sunset hospice

Sweet Home Assisted

Texana BTTC

Texas Children's Hospital Main Campus

Texas Children's Hospital West Campus

Texas Children's Hospital Woodlands Campus

Texas Emergency Care Centers

TEXAS HUMAN HEALTHCARE SERVICES

Texas Orthopedic Hospital

The Arbors Healthcare and Rehab

The Courtyards at Pasadena

The Forum at Memorial Woods Healthcare Center

The Gardens of Bellaire

The Lakes at Texas City

The Medallion

The Medical Center of Southeast Texas

The Medical Center of Southeast Texas Beaumont

The Medical Resort at Pearland

The Medical Resort at Sugarland

The Orchard

The Phoenix Post-Acute

The Shores at Clear Lake

The Villa at Willow Colony and The Villa at Savory Springs

The Village at Gleannloch Farms

Thrive Skilled Pediatric Care

Timberidge Nursing and Rehab

Timberwood Nursing & Rehabilitation Center

Total Friendly Care Services Inc.

Treemont Healthcare

Trinity Homecare

Trucare Hospice and Palliative Services

TTI Home Health Care

Tuscany village

Tyler County Hospital

United America Home Health Service

United Memorial Medical Center

Universal Assisted Living Homes

University of Texas Medical Branch

UT Health HCPC

UT MD Anderson Cancer Center

Vantage Hospice

Vidor Health and Rehabilitation

Villa Toscana at Cypress Woods

Village Choice Health Care, In

Visiting Angels

Vista Nursing and Rehabilitation

VITAS Healthcare

WELLNESS HEALTHCARE INC

West Houston Rehabilitation and Healthcare Center

West Janisch Health Care Center

West Oaks Hospital

West Wynde Home Health Services, Inc.

Westpark Springs

WILLOWBROOK NURSING CENTER

Windsong care center

Windsor Houston

Windsor Quail Valley

Woodland Heights Medical Center

Woodville Health and Rehab