





December 2021 SETRAC Off the Grid Communications Drill

After-Action Report/Improvement Plan

December 7, 2021

The After-Action Report/Improvement Plan (AAR/IP) aligns exercise objectives with preparedness doctrine to include the National Preparedness Goal and related frameworks and guidance. Exercise information required for preparedness reporting and trend analysis is included; users are encouraged to add additional sections as needed to support their own organizational needs.





EXERCISE OVERVIEW

| Exercise Name | Off the Grid Communications Drill |
|--------------------------------|---|
| Exercise Date(s) | December 07, 2021 |
| Purpose | The purpose of this drill was to evaluate the effectiveness of the Regional Healthcare Preparedness Coalition (RHPC) to communicate with partners during a region-wide communications disruption. |
| Mission Area(s) | Preparedness, Response and Recovery |
| HPP HPP Capabilities | HPP Capability 2 - Health Care and Medical Response Coordination |
| Objectives | Assess the ability of Regional Healthcare Preparedness Coalition (RHPC) to establish and maintain communications with the coalition members in the event of a region- wide communications disruption. |
| Threat or Hazard | Region-wide Communication Outage |
| Scenario | Severe weather caused the disruption of multiple communications systems across Southeast Texas. |
| Participating Organizations | See Appendix B |
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ANALYSIS OF HPP CAPABILITIES

Aligning exercise objectives and HPP capabilities provides a consistent taxonomy for evaluation that transcends individual exercises to support preparedness reporting and trend analysis. Table 1 includes the exercise objectives, aligned HPP capabilities, and performance ratings for each HPP capability as observed during the exercise and determined by the evaluation team.

| Objective | HPP Capability | Performed without Challenges (P) | Performed with Some Challenges (S) | Performed with Major Challenges (M) | Unable to be Performed (U) |
|--|--|---|---|--|-------------------------------------|
| Assess the ability of Regional Healthcare Preparedness Coalition (RHPC) to establish and maintain communications with the coalition members in the event of a region-wide communications disruption. | Health Care and Medical Response Coordination | Х | | | |

• Performed without Challenges (P): The targets and critical tasks associated with the HPP 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 HPP 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 HPP 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 HPP capability were not performed in a manner that achieved the objective(s).

Table 1. Summary of HPP Capability Performance





The following sections provide an overview of the performance related to each exercise objective and associated HPP capability, highlighting strengths and areas for improvement.

Objective 1 – Assess the ability of the Regional Healthcare Preparedness Coalition (RHPC) to establish and maintain communications with the coalition members in the event of a region-wide communications disruption.

Overview

The December 2021 Off the Grid Drill involved 131 participating agencies in establishing alternative communications in the event of a region-wide communication failure. Of the 131 participants there were 120 that communicated using web-based texting service, eight (8) utilizing the HAM Radio through the Houston Amateur Radio Network, and three (3) participating agencies using satellite to satellite phones.

Additional HAM Information:

The Houston Area Hospital Amateur Radio Network conducted the amateur radio component of the SETRAC Off the Grid Drill on 12/07/2021 from 0900 hrs. to 1100 hrs. The purpose of this component was for hospital radio stations to:

- 1. Test communication on a directed net with the primary frequency 145.170 using the KA5QDG repeater. Net control used the radio room at Transtar, N5TRS.
- 2. Test simplex communications between hospitals using 146.440 FM to determine which hospitals can talk direct in event of repeater failure.
- 3. Optionally and where equipment allows, test digital radio capability by sending a Winlink message.

#1 – Directed Net

These eight hospitals checked in. All were clearly audible with strong signals.

- Houston Methodist Willowbrook
- Methodist Continuing Care
- Memorial Hermann NE
 - Check-in was from HAHET volunteer's (KF5VIK) home radio station because the hospital is not open to volunteers due to COVID19 protocol.
- Christus Dubuis Beaumont
- Texas Children's West
- Texas Children's Medical Center (main campus)
- Texas Children's Woodlands
- HCA Houston Healthcare Northwest

During this component of the drill, hospitals performed checks of backup equipment (radios, cables, antennas). Houston Methodist Continuing Care identified and corrected a power setting on the backup radio that improved the signal. They also identified a second issue that will require additional testing of cabling, connectors, antenna to isolate the issue. The 2-hour duration of net was beneficial for testing backup equipment and getting feedback from other radio operators and facilities.





We were informed that Methodist West hospital did not require participation in this test since their practice is to test once a year. HAHET volunteer radio operators at Houston Methodist Continuing Care and Houston Methodist Willowbrook hospitals participated in this drill.

#2 – Simplex Communication

Hospitals and Houston Transtar attempted simplex (direct) contact with other facilities on frequency 146.440 FM with these results:

Houston Methodist Willowbrook:

- Methodist CCH full copy
- Texas Children's Hospital West- full copy
- N5TRS Houston Transtar marginal to no copy
- Wb5HJV mobile marginal to 50% copy while leaving Texas Children's Main
- HCA Houston Healthcare Northwest W5NWM full copy
- Texas Children's Hospital The Woodlands strong to full copy

Houston Methodist Continuing Care:

- Houston Methodist Willowbrook full copy
- Texas Children's Hospital West full copy
- N5TRS Houston Transtar weak to 50% copy
- HCA Houston Healthcare Northwest strong to full copy

HCA Houston Healthcare Northwest:

Houston Methodist Willowbrook – full copy Houston Methodist Continuing Care – full copy N5TRS Houston Transtar- full copy KF5VIK for Memorial Hermann Northeast – full copy

KF5VIK for Memorial Hermann Northeast:

HCA Houston Healthcare Northwest

N5TRS Houston Transtar:

HCA Houston Healthcare Northwest - full copy Houston Methodist Willowbrook – weak to 50% copy Houston Methodist Continuing Care – 50% to strong copy Texas Children's Hospital West – 50% to strong copy

Christus Dubuis attempted simplex communication but was unable to reach any station. That is expected due to distance.

#3 – Optional Digital Radio/Email Message

Winlink digital radio messages received from:

- Houston Methodist Willowbrook
- KF5VIK for Memorial Hermann Northeast
- HCA Houston Healthcare Northwest





Email messages received from:

- Christus Dubuis Beaumont
- PaRC Behavioral Health (email message only, did not participate in radio test)

HPP Capability - Health Care and Medical Response Coordination - Full Capability

Strengths

- 1. Additional partners are identifying the need for redundant and alternate methods of communications.
- 2. Participation is reaching new partners and bringing up additional conversations on the region's capabilities and work arounds.
- 3. Recent Radio Operator training and licensure has continued to build a bigger and stronger HAM Radio network.

Area for Improvement

1. Continue training efforts and education on HAM Radio operations and licensing.

APPENDIX A: IMPROVEMENT PLAN

| HPP Capability | Issue/Area for Improvement | Corrective Action | Primary Responsible Organization | Organization POC | Start Date | Completion Date |
|--|-------------------------------|---|--|---------------------|------------|--------------------|
| Health Care and Medical Response Coordination | Education | Continue to hold training sessions for HAM Radio licensing due to turnover and hospital visitation policies of external vendors being permitted access during pandemic operations. | SETRAC | SETRAC Training | 12/8/2021 | Ongoing |

Off the Grid Communications Drill

Appendix B: Participants

B-1 UNCLASSIFIED//FOR OFFICIAL USE ONLY

SETRAC

Homeland Security Exercise and Evaluation Program (HSEEP)

| Participating Agencies/Facilities |
|--|
| ABL Homehealth Services Inc |
| Angelina County & Cities Health District |
| Arising Healthcare Services |
| Auberge Kingwood |
| Avenue 360 Health and Wellness |
| Baptist Hospital Beaumont |
| Bayside Community Acute Care Svcs |
| Bayside Community Hospital |
| Beaumont Emergency Hospital |
| BEST DOMINION HEALTHCARE SERVICES, INC. |
| C C C Health Care Inc |
| CARING PEOPLE, LTD. CO. |
| Cascades at Port Arthur |
| Chambers Health |
| CHI St Luke's Lufkin Memorial |
| CHI St. Luke's Health Memorial San Augustine |
| Christus Dubuis Hospital of Beaumont LTACH |
| Coastal Health & Wellness / Galveston County Health District |
| Columbus Community Hospital |
| COLUMBUS OAKS |
| Commitment To Caring |
| Communication Essentials |
| Continuing Care at Eagles Trace |
| Country Village Care |
| Cura at Homebridge |
| Cura Healthcare |
| Cypress Creek Rehab |
| Cypress Woods Care Center |
| DDF Health Services Inc. |
| DDMS of Houston, LLC |
| Debok Healthcare Inc |
| Eden Hospice Care Services Inc |
| Encompass Health Cypress |
| Encompass Health Rehabilitation Hospital of Humble |
| Fall Creek Rehab & Healthcare |
| Focus Care at Baytown |
| Focus Care Waxahachie |

| Focused Care at Burnet BayFocused Care at OrangeFocused Care at Summer PlaceFocused Care of CenterFort Bend County EMSGalway Meadows Care HomeGolden Triangle Emergency Center, LLCGuif Coast Regional Blood CenterHarris Health LBJ HospitalHarris Health Ben Taub HospitalHOLY HAURANDHouston Healthcare TomballHolly Hall Retirement CommunityHouston Methodist BaytownHouston Methodist Sugar LandHuntington Health CareHuntington Health & RehabKindred Hospital Houston Methodist Sugar LandHuntington Health CareHuutsville Memorial HospitalKingwood Emergency HospitalKingwood EndoscopyLa Vita BellaLiberty Dayton RMCLifecare Options Home HealthLufkin State Supported Living CenterMatagorda County EMSMemorial Hermann Children'sMemorial Hermann Children'sMemorial Hermann NortheastMemorial Hermann Rehabilitation Hospital KatyMemorial Hermann SouthwestMemorial Hermann SouthwestMemorial Hermann The Woodlands | Focused Care Corporate |
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| Moody Neurorehabilitation Institute |
|---|
| MRC Creekside Retirement Community |
| Mzee Home Care Services, LLC |
| ND HEALTHCARE SRVICES INC |
| NURSES NIGHT & DAY, INC. |
| Oakmont Healthcare & Rehab Center of Katy |
| Oceans Healthcare |
| OMK healthcare agency LLC |
| PAM Clear Lake North |
| PAM Rehab Clear Lake South |
| Pam Rehabilitation Hospital of Humble |
| Parkside Surgery Center |
| Peach Creek Assisted Living |
| Perpetual Home Health LLC |
| Pine Arbor |
| Prime Care Medical Services |
| PRUCARE HOME HEALTH AGENCY, PLLC |
| Regent Care Center of Kingwood |
| RiverKids Pediatric Home Health |
| Rollingbrook Rehab |
| SignatureCare Bellaire |
| SignatureCare Memorial City |
| SignatureCare Mission Bend |
| SignatureCare Montrose |
| SignatureCare Stafford |
| SignatureCare Westchase |
| Silverado Hospice - North Houston |
| Spindletop Center |
| CHI St Luke's Sugar Land |
| CHI St. Luke's Livingston |
| Sugar Land Rehab Hospital |
| Summit Nursing |
| Sun Valley Rehabilitation & Healthcare Center |
| Texas Children's Hospital - Main Campus |
| Texas Children's Hospital - West Campus |
| Texas Children's Hospital - Woodlands Campus |
| Texas Emergency Care Atascocita |
| Texas Emergency Care Pearland |
| THE Hallmark |
| The Medical Resort at Pearland |
| The Medical Resort at Sugar Land |
| The Orchard |
| The Woman's Hospital of Texas |
| Trinity Rehabilitation & Healthcare |
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| Trucare Hospice and Palliative Services | |
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| UT Health HCPC | |
| Village Choice Health Care, Inc | |
| West Wynde Health Services | |
| Windsong Care Center | |
| Windsor Houston | |