



Amateur Radio Emergency Services®

In support of



Saint John Hospital



Inaugural Meeting Providence + SJH

March 15, 2021

Via Zoom

Kansas • District 4 • Zone C • Leavenworth County



Amateur Radio Emergency Services®

Agenda

- **Introductions**
- Meeting Purpose
- Virtual Facility Tours
- Preliminary SET Scenario
- Proposed Tests and Training

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Amateur Radio Emergency Services®

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- Introductions
- **Meeting Purpose**
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Amateur Radio Emergency Services®

Saint John Hospital (SJH)
Amateur Radio Support & Services

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Amateur Radio Emergency Services®

Who's Who & What Do They Do?

KCHEART ♥

Provides alternate hospital-to-hospital communications capabilities when primary systems (phone, internet, radio) become degraded or over-loaded.

Equipment: Hospital-owned but Radio Amateur-maintained and operated.

Funding Source: Hospital or by grant.



Radio Amateur volunteers who have voluntarily registered their qualifications with local ARES leadership, for communications duty in the public service when disaster strikes.

Equipment: Radio Amateur-owned and operated.

Funding Source: Radio Amateurs out-of-pocket

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Amateur Radio Emergency Services®

Who's Who & What Do They Do?

KCHEART ♥

Inside the Hospital



Inside and outside
the Hospital

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Amateur Radio Emergency Services®

SJH **KCHEART** ♥ Facilities

**Radio
Operations
Center**

VHF/UHF Voice
KC Metro

VHF Data System
KC Metro

HF Voice/Data
Regional and
beyond



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Amateur Radio Emergency Services®

SJH **KCHEART** ♥ Facilities

Utility Room

VHF/UHF Radio 1

VHF/UHF Radio 2

Terminal Node
Controller

Power Supply



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SJH **KCHEART** ♥ Facilities

Rooftop

VHF/UHF Ant 1

VHF/UHF Ant 2

HF Antenna



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Amateur Radio Emergency Services®

Jarbalo Amateur Radio Association

UHF and VHF repeater service from SJH

Provides on-campus voice and data service for low-powered handheld radios

Provides incident site-to-hospital voice and data service

Footprint reaches Providence outdoor antennas

Inter-facility repeater internet-connection capable

JARBALO AMATEUR RADIO ASSOCIATION



WØROO



Wires-X

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Amateur Radio Emergency Services®

SJH *JARA* Facilities

Utility Room

Repeater

Filters

Lightning
Protection



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Amateur Radio Emergency Services®

SJH *JARA* Facilities

Rooftop

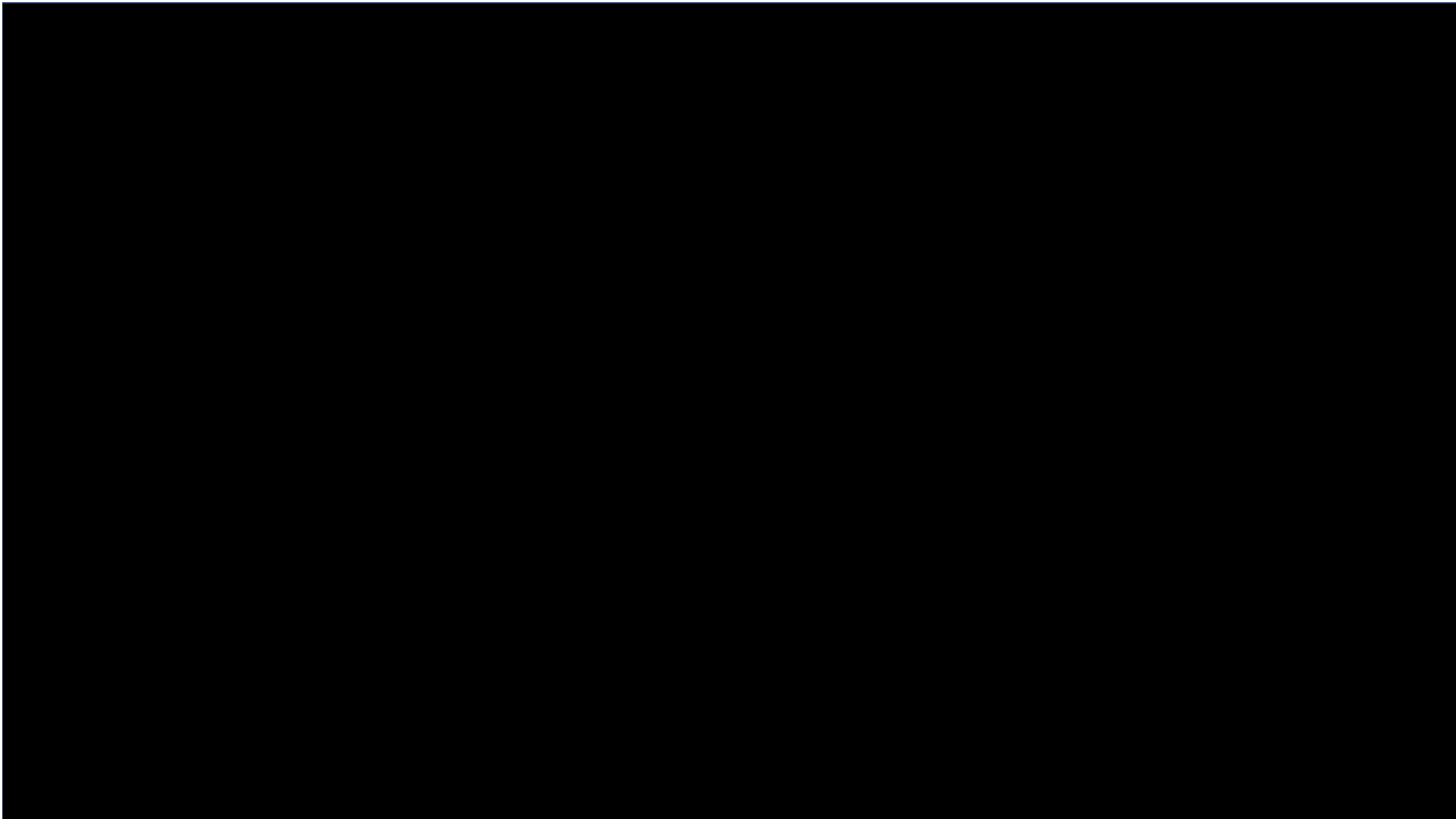
Antenna 1
Common Receiver

Antenna 2
UHF Transmit

Antenna 3
VHF Transmit



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KC Metro

Simulated Emergency Test

Saturday, October 2, 2021

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EXERCISE PURPOSE

To exercise Amateur Radio **KCHEART** ❤️ portion of hospital emergency communications plan resulting in communications between Providence and Saint John Hospitals (Served Agencies).

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EXERCISE OBJECTIVES

Formal

Data Link – Exchange messages on
(H)ICS-213 General Message Forms

Informal

Voice Link – Provide a means for
coordination between hospital staff

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EXERCISE OBJECTIVES (Continued)

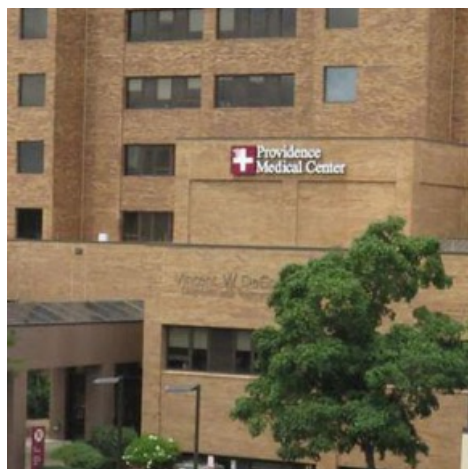
Provide realistic experience for Radio Amateurs in a support role

Familiarize hospital staff with an alternative communications capability

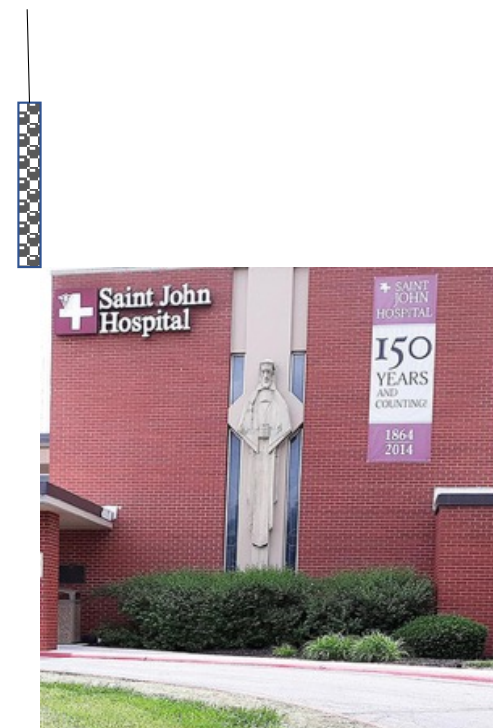


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Data Link



Providence



Saint John

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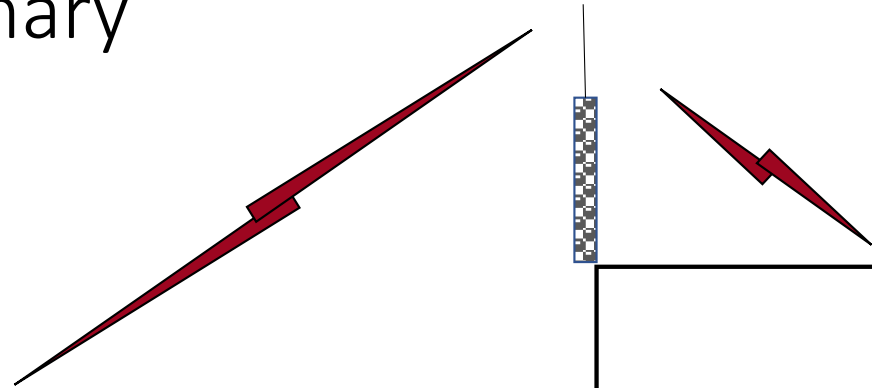


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Data Link - Primary



Providence



Saint John

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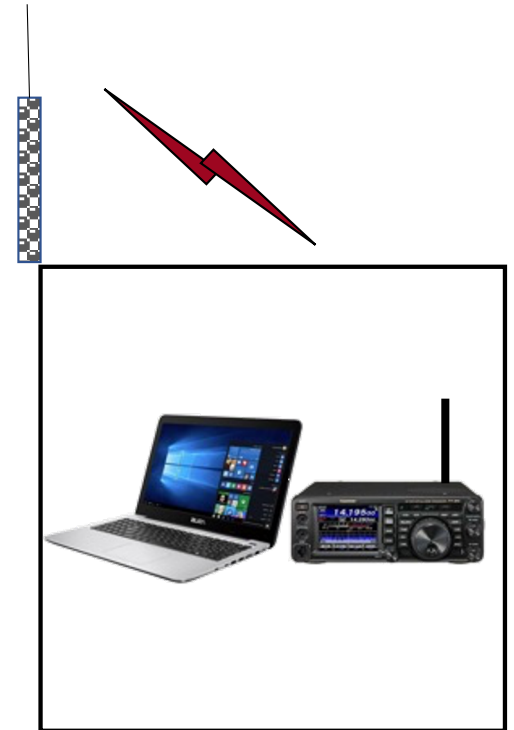


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Data Link - Alternative

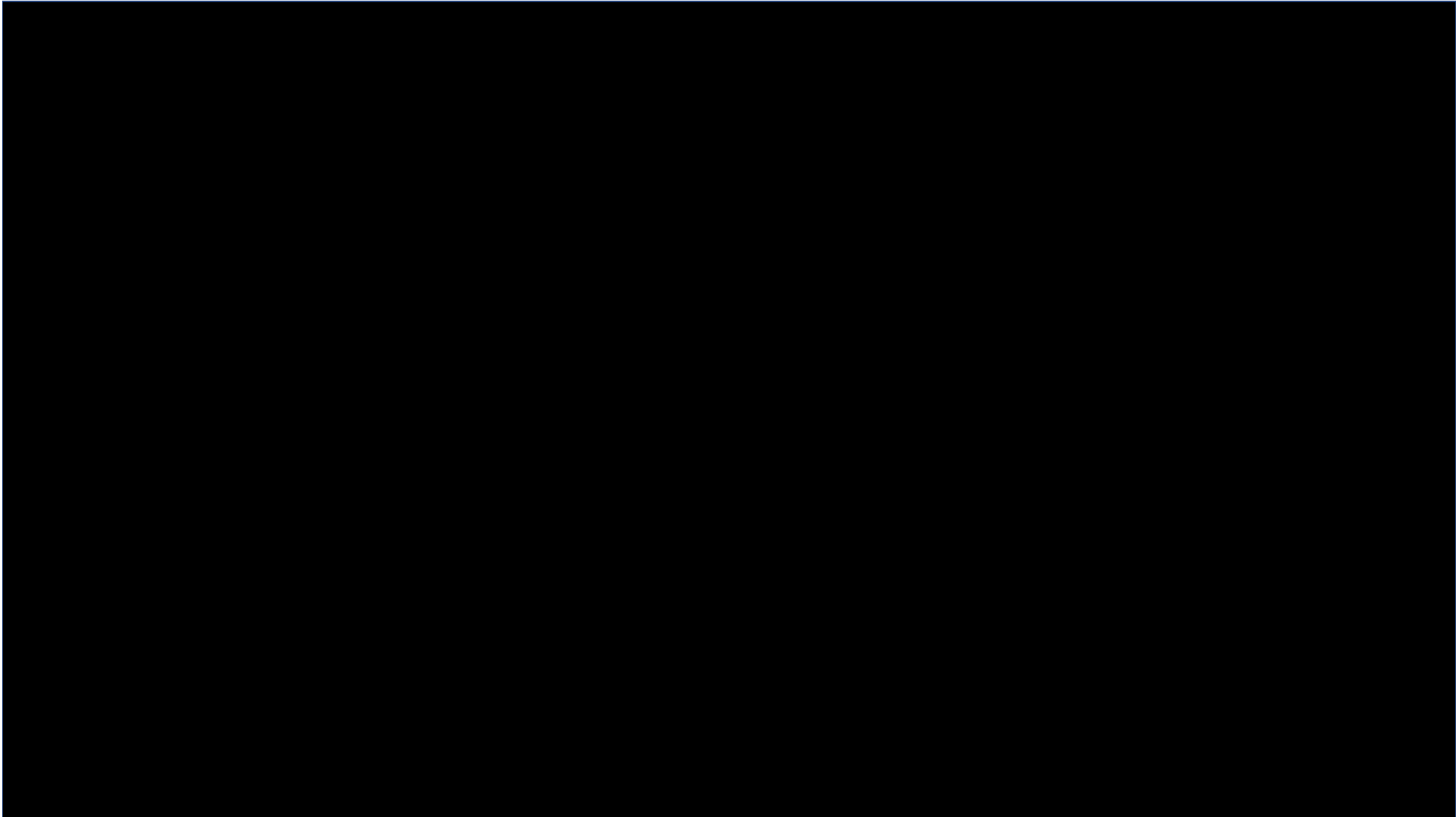


Providence



Saint John

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Amateur Radio Emergency Services®

Tests & Training

- **Test #1**
- Zoom Meeting #2
- Test #2
- Decision Meeting
- KC METRO SET



PROOF OF CONCEPT

Winlink Hospital-to-Hospital



Voice Hospital-to-Hospital

Technical Teams

April 24

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Amateur Radio Emergency Services®

Tests & Training

- Test #1
- **Meeting #2** →
- Test #2
- Decision Meeting
- KC METRO SET

June ??

REQUIREMENTS GATHERING

Locations within the Hospital?

What communications?

Which Forms?

Procedures?

Which staff?

**KCHEART
and Participating Hospital Staff**

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END-TO-END TEST - "DRY RUN"
Answers Question: "How's all this going to work?"

Short duration

Communications Exchange

Tweak/Document Parameters

Key Players - All Welcome
KCHEART
and Participating Hospital Staff

July ??

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Amateur Radio Emergency Services®

Tests & Training

- Test #1
- Zoom Meeting #2
- Test #2
- Decision Meeting →
- KC METRO SET

August ??

DECISION MEETING

Short duration

Are we ready for the SET?
Or do we need additional testing?

Countdown Punch List

Finalize participants
and tasks list

KCHEART
and Participating Hospital Staff

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October 2nd

KC METRO SET

Alerts and Paging: 0700 – 0759

Simulated Emergency: 0800-1200

Local Hotwash: 1230-1300
For Hospital-to-Hospital Participants

Metro-Wide Hotwash: 1400-1500
For KC Area EMs, ECs, and other Leadership

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FINIS

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