

ACS/MCI

CFDMC ACS/MCI –
Capability Review
11/30/2023

Central Florida





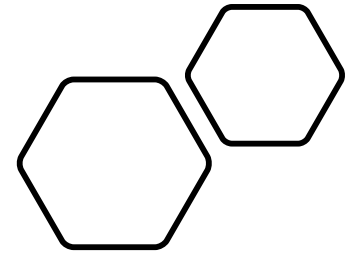
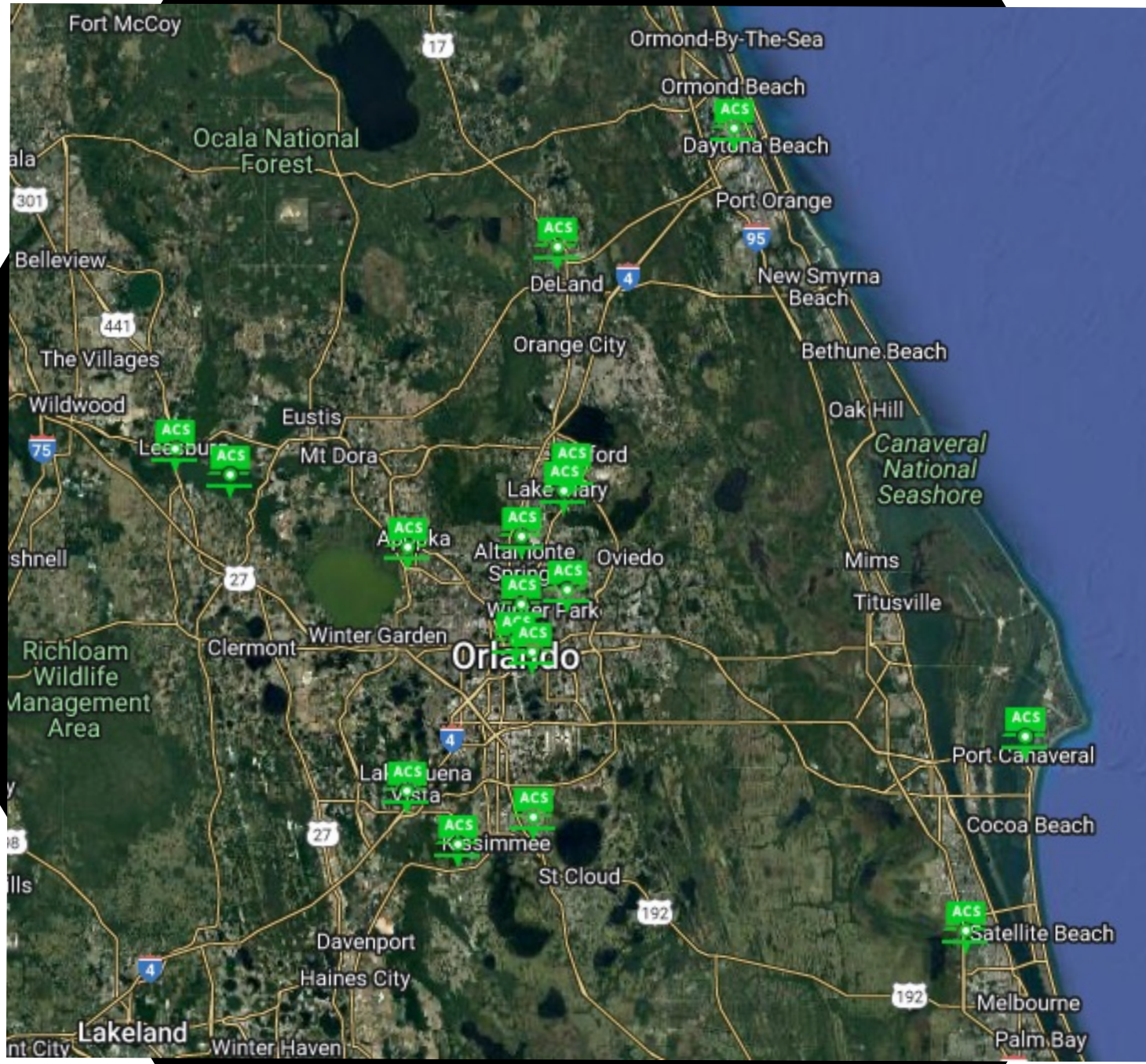
ACS/MCI Regional Caches

- The Regional Domestic Security Task Force (RDSTF) Region 5 ESF8 has established a large cache of medical equipment/supplies across Region 5
- These supplies are located at fixed sites as well as mobile units in trailers for Mass Casualty Incidents (MCI) and Alternate Care Site (ACS) operations
- Regional leadership leveraged funding from a variety of sources to establish these large caches of medical equipment/supplies across Region 5
- CFDMC has been designated as the RDSTF Region 5 ESF8 committee

ACS/MCI Program History

- This program was began prior to 2008; Orange County held the lone regional pack that was established prior to 2001
- The original program useful life expectancy was 5 years (after many agencies were instructed there was no longer any obligation, either contractually or grant requirement). The latest contractual obligation ended April 30, 2012, unless terminated earlier in accordance with the provisions
- They Are Still Available to Respond! To still have these as assets and maintain this capability is a testament to all custodial agencies





ACS Caches

Cache Review Methodology

- The purpose of the site visits was to provide a consistent independent view of the current status and deployment readiness of the caches
- The first phase came via email to simply verify the continued existence of the caches as described in the [Region 5 Alternate Care Site Logistics Plan](#)
- The next phase was direct observation. Questions were raised at the beginning of site visits as to the intentions, and requirements
- An exact inventory was not included as part of the site visits
- All conclusions were generalized intentionally to provide anonymity to the custodial agency





ACS/MCI Cache Custodial Agencies

- Custodial agencies are responsible for readiness of ACS/MCI equipment in their possession. This includes maintenance, deployment, and rehabilitation of inventory following an activation
- Some equipment is no longer kept in trailers but can still be deployed
- Custodial agencies have used their own money, manpower, and commitment to maintain these assets

History of Use

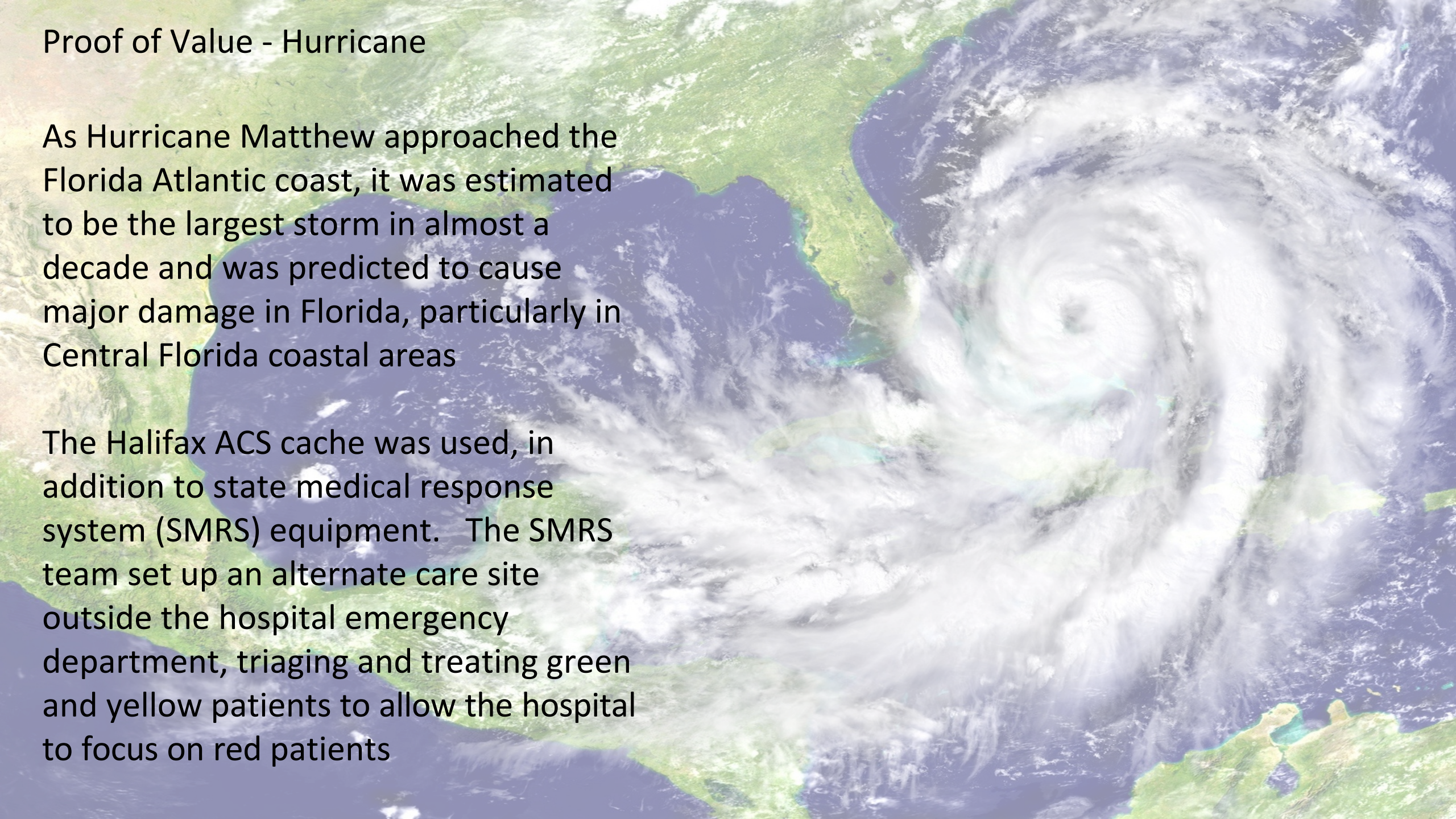
- No reported deployments for the MCI caches
- There are some locations that have never deployed caches for any reason
- Other site locations have seen deployments for hospital alternative care sites and special event support
- In general the ACS caches have seen use for multiple events including multiple set-ups for COVID-19 and hurricane responses



Proof of Value - Hurricane

As Hurricane Matthew approached the Florida Atlantic coast, it was estimated to be the largest storm in almost a decade and was predicted to cause major damage in Florida, particularly in Central Florida coastal areas

The Halifax ACS cache was used, in addition to state medical response system (SMRS) equipment. The SMRS team set up an alternate care site outside the hospital emergency department, triaging and treating green and yellow patients to allow the hospital to focus on red patients



Proof of Value - COVID

In the spring of 2020, affected cities across the United States rushed to remain ahead of an expected surge of coronavirus disease (COVID-19) patient admissions by rapidly constructing alternative care sites (ACS), also known as field hospitals

By April 30, 2020, 28 freestanding ACS with capacity ranging from 50 beds to 3000 beds were either under construction or open across the nation (Assistant Secretary for Preparedness and Response. Federal Healthcare Resilience Task Force Alternate Care Site (ACS) Toolkit. Washington, DC: US Department of Health and Human Services; 2020.)

Region 5 had several ACS stand up over the course of the outbreak.

Additionally, ACS Caches have been used following hurricanes for hospital support such as Halifax and Holmes.



ACS/MCI Capacity



- There are 2 types of caches with very different capabilities.
- MCI caches were developed to assist EMS field response to mass casualty events including one 250-pt. unit in Orange and six 100-pt. units throughout the region
- 16 ACS caches were established to provide surge overflow, alternative care capacity to hospitals. These include 2 tents with 1300 total sq ft of AC workspace



ACS Capability

- Alternate care site (ACS) response capability is an ASPR, coalition and regional priority
- An ACS is a medical treatment facility established in a non-traditional setting during a public-health crisis (or other event causing strain on local medical resources) as a means of providing additional capacity to deliver medical care within a given area
- The Alternate Care Site Regional Logistics Plan outlines processes and responsibilities for maintenance, requests for, deployment of, and rehabilitation of ACS equipment caches

ACS Caches:
26' cargo trailer
with
dehumidifier &
air conditioner
***Variations
exist on actual
contents today;
Original List
included:

- Zumro Quad Shelter (440 sq feet)
- Zumro 860 Shelter (860 sq feet)
- Generator, 17, 000kw with electrical distribution panel and trickle charger (1)
- Extension cords, heavy duty (25 ft, 50 ft, 100 ft) (2 ea.)
- Portable Ari Conditioner, 12, 500 BTU (4)
- Sirocco Lights with stands &tilting device (2)
- Tent lights Easy Up 10" x 15" tent (2)
- Waste can, 60 gallon (2)
- Delineator post (20 e a
- Security/perimeter tape (2 rolls)
- Tarp (20 x40 ft and 20 x30 ft)
- Temp Beds, EBS TB 100 1(cart/5 beds) (1)
- Westcot patient beds with IV pole &dust cover (1 cart/8 beds) (2)
- Tables (9 tables) Table cart (1)
- Chairs, folding (20 light weight)
- Magliner convertible hand truck (2 with chairs) Wire Storage Cart, rolling with shelf (2)
- Totes, flip top
- Assorted medical supplies.
- Body bag (5 ea.)
- Storage shelf (plastic, 3 shelf unit)
- Jump Bag (Blue-BLS) (1) *no supplies
- Jump Bag (Red-ACLS) (1) *no supplies

ACS Custodial Agencies **Updated 11/30/23

| Resource Name | Address | County | Contact | Phone 1 | Email |
|-------------------------------------|--|----------|-------------------|--------------|-----------------------------------|
| ACS AdventHealth Altamonte | 601 E Altamonte Dr, Altamonte, FL, 32701 | Seminole | Justin Everhardt | 813-719-0006 | justin.everhardt@adventhealth.com |
| ACS AdventHealth Apopka | 2100 Ocoee Apopka Rd, Apopka, FL, 32703 | Orange | Justin Everhardt | 813-719-0006 | justin.everhardt@adventhealth.com |
| ACS AdventHealth Celebration | 400 Celebration Pl, Celebration, FL, 34747 | Osceola | Justin Everhardt | 813-719-0006 | justin.everhardt@adventhealth.com |
| ACS Holmes/HealthFirst | 1350 S. Hickory St. Melbourne, FL 32901-3224 | Brevard | Wayne G. Struble | 321-434-1534 | Wayne.struble@hf.org |
| ACS AdventHealth Orlando | 601 E Rollins St, Orlando, FL, 32803 | Orange | Justin Everhardt | 813-719-0006 | justin.everhardt@adventhealth.com |
| ACS-Canaveral Fire Rescue | 8970 Columbia Rd, Cape Canaveral, FL, 32920 | Brevard | Christopher Quinn | 321-783-4424 | cquinn@ccvfd.org |
| ACS Halifax | 303 N Clyde Morris Blvd, Daytona, FL, 32114 | Volusia | Ashley Bueche | 386-453-3603 | Ashley.Bueche@halifax.org |

ACS Custodial Agencies **Updated 11/30/23

| Resource Name | Address | County | Contact | Phone 1 | Email |
|---|--|----------|-------------------|--------------|--|
| ACS - Lake County EMS | 2345 S. 14th St, Leesburg, FL, 34748 | Lake | Jason White | 352-551-4007 | jason.white@lakecountyfl.gov |
| ACS Orange County EMS | 2002-A East Michigan Street, Orlando, FL, 32806 | Orange | Amanda Freeman | 407-408-5005 | Amanda.Freeman@ocfl.net |
| ACS Orlando Health ORMC(Holds 4 ACS) | 52 W Underwood St, Orlando, FL, 32806 | Orange | Eric Alberts | 407-304-6283 | Eric.Alberts@orlandohealth.com |
| ACS Osceola County EM | 402 Simpson Rd,, Kissimmee, FL, 34744 | Osceola | Bill Litton | 407-742-9000 | Bill.Litton@osceola.org |
| ACS Seminole EM | 150 Eslinger Way, Sanford,, FL, 32750 | Seminole | Steve Lerner | 407-665-5121 | slerner@seminolecountyfl.gov |
| ACS - Canaveral Hospital | 701 W. Cocoa Beach Cswy. Cocoa Beach, FL 32931-3585 | Brevard | Wayne G. Struble | 321-434-1534 | Wayne.struble@hf.org |

Original ACS
with Costs:
***Variations
exist on actual
contents &
costs listed do
not reflect
today's value

| | | | | | | |
|---|---|----|----|---------------------|--------------|--------------|
| Area Light (55watt Fluorescent) | D | 2 | 2 | | \$ 40.00 | \$ 80.00 |
| Area Light with stand & tilting device (Simoco) | N | 2 | 2 | S0807269; S09033606 | \$ 2,340.00 | \$ 4,680.00 |
| Bed, Med Surge, Westcot w IV pole | N | 16 | 16 | | \$ 312.00 | \$ 4,992.00 |
| Bed, Temp, Med Surg, EBS TB 100 | N | 5 | 5 | | \$ 579.00 | \$ 2,895.00 |
| Body bag | D | 5 | 5 | | \$ 41.00 | \$ 205.00 |
| Cart, Zumro 440 | N | 1 | 1 | | \$ 45.93 | \$ 45.93 |
| Cart, Zumro 860 | N | 1 | 1 | | \$ 30.62 | \$ 30.62 |
| Cart, Table | N | 1 | 1 | | \$ 159.57 | \$ 159.57 |
| Cart, Temp Bed | N | 1 | 1 | | \$ 1,100.00 | \$ 1,100.00 |
| Cart, Westcot w dust Cover | N | 2 | 2 | | \$ 376.00 | \$ 752.00 |
| Cart, Wire Security | N | 2 | 2 | | \$ 950.00 | \$ 1,900.00 |
| Chairs, folding | N | 20 | 20 | | \$ 12.89 | \$ 257.80 |
| Door Panel, Fixed | D | 1 | 1 | | \$ 1,200.00 | \$ 1,200.00 |
| Electrical Distribution Cable Twist Lock, w NEMA Pigtail | N | 1 | 1 | | \$ 400.00 | \$ 400.00 |
| Electrical Distribution Panel, 50 Amp | N | 1 | 1 | | \$ 399.99 | \$ 399.99 |
| Extension cord, heavy duty 100 ft | D | 2 | 2 | | \$ 45.38 | \$ 90.76 |
| Extension cord, heavy duty 25 ft | D | 2 | 2 | | \$ 8.37 | \$ 16.74 |
| Extension cord, heavy duty 50 ft | D | 2 | 2 | | \$ 14.72 | \$ 29.44 |
| Folding Sun Shade/shelter 10' x 15' | D | 2 | 2 | | \$ 375.00 | \$ 750.00 |
| Generator Set, 13KW, 50 Amp | N | 1 | 1 | SN 5191754 | \$ 2,369.00 | \$ 2,369.00 |
| Hand truck, Magliner convertible | D | 2 | 2 | | \$ 279.89 | \$ 559.78 |
| Inflator, Zumro, High Volume | D | 1 | 1 | | \$ 483.00 | \$ 483.00 |
| Inflator, Zumro, Low Volume | D | 2 | 2 | | \$ 304.50 | \$ 609.00 |
| Jump Bag (Blue-BLS) | D | 1 | 1 | | \$ 369.46 | \$ 369.46 |
| Jump Bag (Red-ALS) | D | 1 | 1 | | \$ 369.46 | \$ 369.46 |
| Light Set 10 Bulb | D | 2 | 2 | | \$ 86.43 | \$ 172.86 |
| Storage shelf (plastic, 3 shelf unit) | D | 1 | 1 | | \$ 125.00 | \$ 125.00 |
| Tables, Folding | D | 9 | 9 | | \$ 67.53 | \$ 607.77 |
| Tape, Security/perimeter | E | 2 | 2 | | \$ 13.00 | \$ 26.00 |
| Tarp 20 x 30 ft | E | 1 | 1 | | \$ 55.95 | \$ 55.95 |
| Tarp 20 x 40 ft | E | 1 | 1 | | \$ 74.95 | \$ 74.95 |
| Totes, flip top | D | 20 | 20 | | \$ 27.14 | \$ 542.80 |
| Traffic Control Post, Delineator | D | 40 | 40 | | \$ 22.00 | \$ 880.00 |
| Trailer (26 ft) Towable with dehumidifier & air conditioner | N | 1 | 1 | VN 5QLBE2048C000155 | \$ 26,900.00 | \$ 26,900.00 |



MCI Capability

- Mass casualty incidents occur regularly across the region. MCI caches were established to help provide extra needed equipment for BLS, ALS, spinal immobilization, airway management and wound care
- Contents varied widely and originally included empty bags, no bandages or other medical supplies

MCI Custodial Agencies** Updated 11/30/23

| Resource Name | Address | County | Contact | Phone 1 | Email |
|---------------------------------------|---|----------|-------------------------------|--------------|---|
| MCI caches Brevard County Fire Rescue | 4630 Lake Washington Rd, Melbourne, FL, 32954 | Brevard | Orlando Dominguez | 321-863-3734 | orlando.dominguez@brevardfl.gov |
| MCI - Lake Fire Rescue | 8819 County Road 48, Yalaha, FL, 34797 | Lake | Jason White | 352-551-4007 | Jason.white@lakecountyfl.gov |
| MCI - Martin County Fire Rescue | 24201 SW Martin Hwy, Okeechobee, FL, 34974 | Martin | Chris Kammel | 772-320-4803 | ckammel@martin.fl.us |
| MCI Orange F/R(250) | 6590 Amory Ct, Winter Park, FL, 32792 | Orange | Amanda Freeman | 407-408-5005 | Amanda.Freeman@ocfl.net |
| MCI Osceola F/R | 1664 Broad St,, Kissimmee, FL, 34746 | Osceola | Michael Capranica | 407-742-6997 | capranica@osceola.org |
| MCI Seminole County Fire Rescue | 201 Valentine Way, Longwood, FL, 32750 | Seminole | Sam Thurmond & or Greg Harlow | 407.665.5184 | sthurmond@seminolecountyfl.gov and or gharlow@seminolecountyfl.gov |

MCI Caches (100 patients):
26' cargo trailer,
7' interior, 5Am
svc /w 2 Canopies
(1) ***Variations
exist on actual
contents today;
original List
included:

- Megaphones (2)
- Litter Carrier (5)
- Gen Set 15 KW (1)
- Cable 50 Amp, Twist Lock, 100' (2)
- CEP 50 Amp Power distribution center (spider box) (1)
- Litters, Folding, Nato/ravens type (25)
- Backboards, with straps (50)
- Adult C-Collars (5 Adjustable)
- Pediatric C-Collars (5 Adjustable)
- Head Immobilization Devices (10)
- BLS Bag Packed (25)
- Scene Lights, LED (6)
- MCI triage Tarp Kit (2)
- MCI Triage Flags (1)
- Triage Vest Kit 9 (2)
- O2 Manifold (5)
- Helo Light Kit (1)
- OPA Kit (24)
- NPA Kit (24)
- AED (2)
- O2 Tank Carriers (5)
- H Medical Oxygen Cylinder, 7079L, Steel (10)
- Blankets, disaster (250)
- Extension cords, 50' (10)
- shelf racks, 6' (3)
- Active shooter kit, bleeding control (50)

Original Estimate
MCI Costs:
***Variations
exist on actual
contents & cost
listed does not
reflect today's
value

| Item | Qty | estimated price | extended price |
|--|-----|-----------------|----------------|
| 26' cargo trailer, 7' interior, 5Am svc /w 2 AC units and 2 Canopies | 1 | 35,000 | 35,000 |
| 1/2mile Hailer P.A. system | 2 | 400 | 800 |
| Litter Carrier | 5 | 150 | 750 |
| Gen Set 15 KW | 1 | 300 | 300 |
| Cable 50 Amp, Twist Lock, 100' | 2 | 500 | 1,000 |
| CEP 50 Amp Power distribution center (spider box) | 1 | 400 | 400 |
| Litters, Folding, Nato/ravens type | 25 | 0 | 0 |
| Backboards, with straps | 50 | 125 | 6,250 |
| BLS Bag Packed | 25 | 400 | 10,000 |
| Scene Lights, LED | 6 | 100 | 600 |
| MCI triage Tarp Kit | 2 | 250 | 500 |
| MCI Triage Flags | 1 | 250 | 250 |
| Triage Vest Kit | 2 | 400 | 800 |
| O2 Manifold | 5 | 600 | 3,000 |
| Helo Light Kit | 1 | 0 | 0 |
| OPA Kit | 24 | 6.15 | 148 |
| NPA Kit | 24 | 16 | 384 |
| AED | 2 | 1500 | 3,000 |
| O2 Tank Carriers | 5 | 260 | 1,300 |
| H Medical Oxygen Cylinder,7079L, Steel | 10 | 364.5 | 3,645 |
| Blankets, disaster | 250 | 5.4 | 1,350 |
| Extension cords, 50' | 10 | 50 | 500 |
| shelf racks, 6' | 3 | 150 | 450 |
| Active shooter kit, bleeding control | 50 | 125 | 6,250 |
| | | Total | \$76,677 |



Current State of Readiness

- First and foremost, all caches remain as a capability we have sustained!
- Overall conditions for each pack by location varied, as did the current deployment status of trailers
- Some locations no longer house this equipment in the original trailers. Trailers were purchased as far back as 2008 and many are no longer serviceable



Key Site Visit Takeaways:

- Custodial agencies have ensured ACS/MCI equipment caches are maintained in a constant state of readiness
- Caches contents have begun to vary as have the interior configurations. Some agencies have added equipment and capacity. Many of the packs were purchased at different time periods and included slight variations in content
- There has been denigration of tent walls with some packs
- Some trailers and equipment will soon exhaust their useful lifespan and require replacement if we are to maintain the capacity



Key Site Visit Takeaways - Continued:

- Original generators may be insufficient for intended use
- Air Conditioning capacity is insufficient for intended use
- With many changes being made to contents, there is no current minimum equipment listing, especially for MCI Caches
- We do not have current cache deployment status (trailered, warehoused, and whether transportation needs to be facilitated)
- Many contacts listed in existing plans were outdated and have been updated

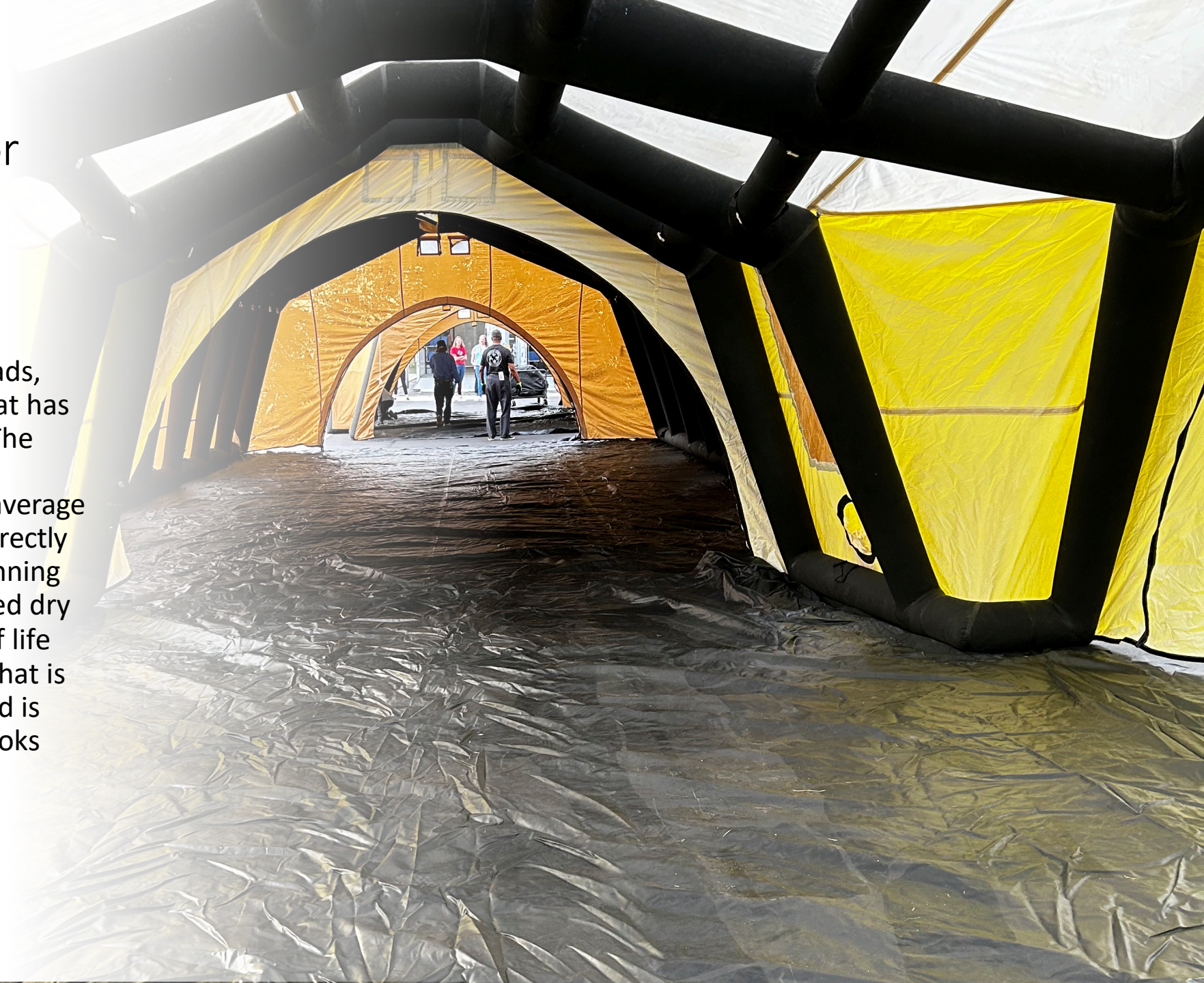
Key Site Visit Takeaways - Continued:

- There are 16 ACS caches in the region; none are located in the Treasure Coast area
- From a hospital perspective, Orlando Health and AdventHealth have ACS assets. Systems without ACS assets include Cleveland Clinic, HCA, Health First and UFHealth Leesburg.
- There are 6 MCI caches in the region; all in the UASI area due to funding restrictions
- Volusia planned on developing 2 smaller MCI caches. The Coalition purchased a cache in Martin County in 2021.



Equipment Expired or Unusable

- Any bandage, gauze, sterile pads, hand wipes, tape, or anything that has tubing are expired or expiring. The dates vary depending on item, manufacturer, and storage. The average life is around 5 years if stored correctly with at least the dehumidifier running
- Brevard County shrink-wrapped dry good and showed extended shelf life
- Osceola County has one unit that is basically cared for by inmates and is routinely cleaned and serviced; looks "Show Room New!"



Equipment Expired or Unusable - Continued

- Many tents need repair or replacement
- Since the Zumro frame is Neoprene that seldom goes bad (unless direct physical cutting or abrasion due to material thickness), it is more cost effective to replace the canopy
- Approx. \$12,000 for a canopy and approx. \$30-40,000 for a new 860
- New canopy material is a bond coat vs. the current laminated material. The bond coat is part of the material so if isn't affected by moisture like the laminated material
- The units as configured and equipped lack sufficient HVAC/air conditioning capabilities.



Equipment Expired or Unusable - Continued

Tents Needing Repair:

- Lake County
- Halifax

Tents In Good Shape:

- AdventHealth (repaired during COVID)
- Health First (just had some of their redone)
- ORMC (with age, some delamination)



Discussion re Recommendations to CFDMC Board:

- Continue support for MCI caches?
- Continued support for ACS caches?
- Material replacement?
- HotZone Tent review
- Standardization?
- Deployment Status/Process for Each Cache?



Possible Sources of Funding Include:

- Health and Human Services
 - » Cooperative agreements, specifically the Hospital Preparedness Program (HPP) COVID-19 Funding and the CDC Crisis Response Cooperative Agreement. Other CDC mechanisms that may support these activities include the Epidemiology and Laboratory Capacity (ELC) Cooperative Agreement and the grant for Supporting Tribal Public Health Capacity in Coronavirus Preparedness and Response (Tribal COVID-19).
 - » Payment through Centers for Medicare and Medicaid Services (CMS) programs to health care facilities and practitioners for covered services furnished to enrolled beneficiaries
- Federal Emergency Management Agency
 - » Public Assistance Funding and Direct Federal Assistance
- COVID-19 Uninsured Program
 - » Funding through the Health Resources and Services Administration (HRSA) (COVID-19 Uninsured Program)
- For more information on funding sources, see the ACS Funding Summary: Establishment and Operationalization at: <https://files.asprtracie.hhs.gov/documents/aspr-tracie-acf-funding-sources-establishment-and-operationalization.pdf>

A close-up, low-angle shot of a person's feet as they hike on a rocky trail. The person is wearing dark brown hiking shoes with red laces and red soles. They are also wearing light blue socks and dark brown leggings. The trail is composed of grey rocks and is surrounded by dry, golden-brown grass. The background shows a hazy, rolling landscape under a bright sky. The text "Next Steps...." is overlaid in the center of the image.

Next Steps....