Unified Planning Coalition

Health and Medical Mission Ready Package Development

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ASPR/ORISE Health and Emergency Management Fellow
Assigned to: The Mississippi State Department of Health
Unified Planning Coalition

• Mission: Through collaborative all-hazards planning and the development of partnerships, the Region IV ESF-8 Unified Planning Coalition will enhance the member states’ abilities to prepare for public health and medical response to incidents/events.

• Vision: All Region IV ESF8 Unified Planning Coalition state, federal and tribal partners will support each other to prepare for and respond to incidents or events through the development of integrate, interoperable, and comprehensive all-hazards public health and medical emergency response systems.
What are Mission Ready Packages?

- “Specific response and recovery capabilities that are organized, developed, trained, and exercised prior to an emergency or disaster.” – Emergency Mutual Aid Compact
- Based on NIMS resource typing
- Include credentialed personnel
- Can be built for teams with up to 25, 50, 100, 250, 500, 1000 and 1500 personnel
Mission Ready Packages: State-by-State Breakdown
Mississippi’s Mission Ready Packages

- Mass Dispensing Consulting Team (Type I & II)
- RSS Personnel Team
- Incident Management Team (Type III)
- Medical Coordination Team
- Collapse Search and Rescue Personnel Team
- Mortuary Response Personnel Team
- Mortuary Response Team*
- Portable Emergency Room/First Aid Package
- Pharmacy Services Personnel Team
- State Medical Needs Shelter Team (25, 50, 100-bed capabilities)
- Medical Interpreter Package
- Medical Strike Teams
- Medical FAST Teams
Mississippi’s Mission Ready Packages

- Environmental Health Strike Team
- Environmental Health Task Force
- Data and Surveillance Team
- Public Information Team
North Carolina’s Mission Ready Packages

- ALS Ambulance Strike Team
- Ambulance Bus Strike Team
- Convalescent Strike Team Package
- Medical Transport Task Force
- Single Ambulance Bus Team
- Special Medical Support Shelter (25, 50, 100 bed capacity)

- Advance Medical Coordination Team
- Medical Coordination Team (Full Configuration)
- Medical Field Station (40 bed capacity)
Kentucky’s Mission Ready Packages

- Environmental Strike Team
- Epidemiology Strike Team
- Incident Management Team
- EMS Strike Team (Type II)
What is the mission?

- Determine mission profile and necessary components for support
- Determine inventory costs
- Determine depreciation schedule to be used
- Determine equipment replacement and/or commodity expiration expenses
- Determine annual program administration to maintain deployable assets
- Determine rate of return on all of the above expenditures
Information Collecting

• Daily usage
• Wear and tear during training
• Total inventory costs + daily usage (per year) + wear and tear during training (per year) = Program Administration Costs (daily rate)
• Contract Labor
Barriers to Implementation

• What do I “fill out”? 
• Capturing personnel costs 
• Determining medical and specialty equipment rates 
• Tracking commodity expenses
Program Administration Costs

• Main component of most capabilities provided
• Determine any existing comparable rates
  - Goods
  - Services
  - Specialty Equipment
Value-Based Costing Method

• What is the current value of my inventory?
• What contractual labor costs support this mission?
• Budget Preparedness
  • Program Sustainability vs. Reimbursement Model
How do we create models for sustainment?

- Inventory management
- Depreciation—several different models;
  - How do we quantify skill sets?
- End of service life
- Perishable skills
- Exercise and training
Personnel Costs

- Bureau of Labor Statistics
- Actual Contract Labor Expenses
- Average cost per classification
Multiple Configurations: Use modular concept and determine capability being requested
Mobile Emergency Treatment and Training System (METTS)

Fully interoperable with SMAT assets; integrated boot system

Expands SMRS field capabilities with enhanced medical surge capability
- 6 Treatment Bays
- Procedure/Resuscitation Bay
- Mobile Simulation Center (6 Human Patient Simulators)
METTS & MRTS
(as additional treatment space-Equipment is modular concept)
## Commodities: Using the Cache Concept

### Assisting State Emergency Management Mission

**Reference Number:**

**Resource Provider Tracking Number:**

Commodities are expendable (or consumable) resources such as office supplies, sundries, water, ice, snacks, fuel, and other one-time-use items. All receipts for commodities must be submitted at the time of reimbursement and must be directly related to the mission.

### Lines of Commodity Data Entered: 3

### Total Commodity Costs for Mission Calculated by Quantity: $90,917.60

<table>
<thead>
<tr>
<th>Commodity Costs</th>
<th>Priced by Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Commodity Description:</strong></td>
<td><strong>Cost Per Item</strong></td>
</tr>
<tr>
<td>Generator Fuel</td>
<td>$3.89</td>
</tr>
<tr>
<td>Acute Care Commodities cache (All acute care associated soft supplies)</td>
<td>$25,000.00</td>
</tr>
<tr>
<td>Emergency Department Formulary (All pharmaceuticals)</td>
<td>$38,000.00</td>
</tr>
<tr>
<td>4</td>
<td>$ -</td>
</tr>
<tr>
<td>5</td>
<td>$ -</td>
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<tr>
<td>6</td>
<td>$ -</td>
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<td>7</td>
<td>$ -</td>
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<td>8</td>
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<td>9</td>
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<td>$ -</td>
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<tr>
<td>11</td>
<td>$ -</td>
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<tr>
<td>12</td>
<td>$ -</td>
</tr>
<tr>
<td>13</td>
<td>$ -</td>
</tr>
</tbody>
</table>
Demobilization Related Expenses (or special expenses not covered elsewhere in the MRP)

<table>
<thead>
<tr>
<th>Other Description</th>
<th>Priced by Quantity</th>
<th>Priced by Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>METTS Service after use</td>
<td>$2,300.00</td>
<td>$2,300.00</td>
</tr>
<tr>
<td>Generator Service after use</td>
<td>$476.00</td>
<td>$476.00</td>
</tr>
<tr>
<td>Air Conditioner Service after use</td>
<td>$200.00</td>
<td>$200.00</td>
</tr>
<tr>
<td>Administration/Repair/Replacement</td>
<td>$5,000.00</td>
<td>$5,000.00</td>
</tr>
<tr>
<td>Prime mover service after use</td>
<td>$300.00</td>
<td>$300.00</td>
</tr>
<tr>
<td>MRTS Service after use</td>
<td>$2,300.00</td>
<td>$2,300.00</td>
</tr>
</tbody>
</table>
Cache vs Itemization

<table>
<thead>
<tr>
<th>Commodity Description</th>
<th>Priced by Quantity</th>
<th>Cost Per Item</th>
<th>Quantity</th>
<th>Total Commodity Costs</th>
<th>Total Commodity Costs for Mission Calculated by Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Generator Fuel</td>
<td>$3.80</td>
<td>750</td>
<td></td>
<td>$2,855.00</td>
<td>$30,917.50</td>
</tr>
<tr>
<td>2. Respiratory Supplies (ET, Trach, Drip/RR, Disposable Long Tubes)</td>
<td>$750.00</td>
<td>3</td>
<td></td>
<td>$2,250.00</td>
<td></td>
</tr>
<tr>
<td>3. Emergency Department Formulary</td>
<td>$11,000.00</td>
<td>1</td>
<td></td>
<td>$11,000.00</td>
<td></td>
</tr>
<tr>
<td>4. IV supplies (Tubing, Connections, Op-Kit, prep, tape)</td>
<td>$2,000.00</td>
<td>2</td>
<td></td>
<td>$4,000.00</td>
<td></td>
</tr>
<tr>
<td>5. Assorted Syringes/Needles</td>
<td>$650.00</td>
<td>1</td>
<td></td>
<td>$650.00</td>
<td></td>
</tr>
<tr>
<td>6. Tissue Supplies (Bandages, Sutures, Disposables, Pusheve)</td>
<td>$2,500.00</td>
<td>2</td>
<td></td>
<td>$5,000.00</td>
<td></td>
</tr>
<tr>
<td>7. Disposable Hopper Supplies SSBBP, SSBBP, BDBS, BDBS</td>
<td>$2,500.00</td>
<td>1</td>
<td></td>
<td>$2,500.00</td>
<td></td>
</tr>
<tr>
<td>8. Disposable Sheets/Pillow Cases</td>
<td>$1,200.00</td>
<td>2</td>
<td></td>
<td>$2,400.00</td>
<td></td>
</tr>
<tr>
<td>9. Disposable Pillows</td>
<td>$75.00</td>
<td>20</td>
<td></td>
<td>$1,500.00</td>
<td></td>
</tr>
</tbody>
</table>

Resource Provider Tracking Number:

- METTS & MRST - an additional treatment space - 1 Week x 2 day ET

Commodities are expendable or consumable resources such as office supplies, sanitary, water, ice, snacks, fuel, and other one-use items. These commodities must be tracked at the time of receipt and can be directly related to the mission.

Lines of Commodity Data Entered: 3
Total Commodity Costs for Mission Calculated by Quantity: $30,917.50
### Similar Methodologies: NJ and MS

#### Equipment Costs:

<table>
<thead>
<tr>
<th>Equipment Description</th>
<th>Cost Per Item</th>
<th>Quantity</th>
<th>Total Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile Satellite Emergency Department</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Support Vehicle with Portable Oxygen</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Telecommunications with V-SAT System</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supply Truck with MISD Equipment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mobile OR used as Expanded E.D Space</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interconnect for MISD and Mobile OR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Microwave System</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supply Truck with Medical Supplies</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Equipment Description

<table>
<thead>
<tr>
<th>Equipment Description</th>
<th>Cost Per Item</th>
<th>Quantity</th>
<th>Total Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile Emergency, Travel and Trauma (METTS)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mobile Command Trailer for Computer Work Station</td>
<td>$8,500</td>
<td>1</td>
<td>$8,500</td>
</tr>
<tr>
<td>Support Equipment to support additional mission</td>
<td>$200</td>
<td>1</td>
<td>$200</td>
</tr>
<tr>
<td>V-SAT Satellite System</td>
<td>$300</td>
<td>1</td>
<td>$300</td>
</tr>
<tr>
<td>Additional clinical equipment (stretcher, IV machine, PACS)</td>
<td>$1,000</td>
<td>1</td>
<td>$1,000</td>
</tr>
<tr>
<td>Satellite phone</td>
<td>$100</td>
<td>1</td>
<td>$100</td>
</tr>
<tr>
<td>Mobile Response Trailer (METTS) to be used at additional ED space</td>
<td>$9,500</td>
<td>0</td>
<td>$9,500</td>
</tr>
<tr>
<td>Boot Interconnect for METTS/MRTS</td>
<td>$300</td>
<td>1</td>
<td>$300</td>
</tr>
<tr>
<td>Supply cart with clinical equipment (stretcher, IV machine, PACS)</td>
<td>$300</td>
<td>1</td>
<td>$300</td>
</tr>
<tr>
<td>Supply cart with Medications</td>
<td>$200</td>
<td>1</td>
<td>$200</td>
</tr>
<tr>
<td>4' 3' cold storage storage for medication/more supplies</td>
<td>$500</td>
<td>1</td>
<td>$500</td>
</tr>
<tr>
<td>ADA compliant rest room trailer</td>
<td>$100</td>
<td>0</td>
<td>$100</td>
</tr>
</tbody>
</table>
Regional Snapshot
Emergency Operations Coordination

- Incident Management Team-Type III (MS)
- Information Technology Disaster Preparedness Consultant (FL)
- Logistics Support Team (FL)
- Mobile Command Center Package (TN)
- Post-Impact ESF-8 Assessment Team (FL)
- Warehousing Logistics Task Force Package (TN)
Fatality Management

- Behavioral Health Assessment Team Type III (FL)
- Florida Emergency Mortuary Operations Response System (FL)
- Florida Emergency Mortuary Operations Response System Disaster Portable Morgue Unit (FL)
- Florida Emergency Mortuary Operations Response System Morgue Identification Center Unit (FL)
- Florida Emergency Mortuary Operations Response System Victim Information Unit (FL)
- Mississippi Mortuary Response Team & Equipment (MS)
- Mortuary Enhanced Remains Cooling System (MS)
- Mortuary Response Team Personnel (MS)
Information Sharing

- Information Technology Disaster Preparedness Consultant (FL)
Mass Care

- 50 Bed Medical Assistance Package (TN)
- ADPH Medical Needs Shelter (Team Only) (AL)
- ADPH Medical Needs Shelter Team w/Medical Station (AL)
- Behavioral Health Assessment Team Type III (FL)
- Hospital Augmentation Package (Pharmacy Services) (MS)
- Special Needs Shelter Management Team (FL)
- Special Needs Shelter Response Team (FL)
- State Medical Needs Shelter- 25, 50, 100 beds (MS)
- Western Shelter Gatekeeper (FL)

- Medical Field Station (40 Bed Mobile Field Hospital) (NC)
- Medical Support Team Type I (Medical Augmentation Package w/Medical Support Trailer) (NC)
- Medical Support Team Type IV (General Population Shelter Support) (NC)
- Special Medical Support Shelters (SMSS) (25, 50, 100 Bed Capacity) (NC)
- Special Needs Shelter Clinical Augmentation Team (FL)
- Special Needs Shelter Logistics Augmentation Team (FL)
Medical Surge

- 50 Bed Medical Assistance Package (TN)
- ADPH Medical Needs Shelter (Team Only) (AL)
- ADPH Medical Needs Shelter Team w/Medical Station (AL)
- Ambulance Strike Team (FL)
- EMS Strike Team (TN)
- Hospital Augmentation Package-Pharmacy Services (MS)
- Medical Coordination Team (MS)
- Medical Field Station-40 Bed (NC)
- State Medical Needs Shelter-25, 50, 100 Beds (MS)
- Medical Support Team Type I (Medical Augmentation Package w/Medical Support Trailer) (NC)
- Nurse Strike Team (NC)
- Special Medical Support Shelter (SMSS)-25, 50, 100 Beds (NC)
- Special Needs Shelter Clinical Augmentation Team (FL)
- Special Needs Shelter Logistics Augmentation Team (FL)
- Special Needs Shelter Management Team (FL)
Medical Countermeasure Dispensing

- Mass Dispensing Consulting Team-Type I (MS)
- Mass Dispensing Consulting Team-Type II (MS)
- Strategic National Stockpile Receipt, Stage, Store Team (FL)
Medical Materiel Management and Distribution

- Receipt, Stage, and Store Task Force (MS)
- Strategic National Stockpile Receipt, Stage, Store Team (FL)
Public Health Surveillance and Epidemiological Investigation

- ADPH Epidemiology Team (AL)
- Data and Surveillance (MS)
- Epidemiology Strike Team (FL)
- Public Health Investigation Team (PHIT) Package (TN)
Critical Transportation

- Ambulance Strike Team (FL)
- Medical Transport Package Type I (Medical Transport Task Force) (NC)
- Medical Transport Package Type II (ALS Ambulance Strike Team) (NC)
- Medical Transport Package Type III (Ambulance Bus Strike Team) (NC)
Environmental Response/Health and Safety

- ADPH Radiation Team (AL)
- Environmental Health Strike Team (MS)
- Environmental Health Strike Team Package (TN)
- Environmental Health Strike Team Type I (FL)
- Environmental Health Strike Team Type II (FL)
- Environmental Health Strike Team Type III (FL)
- SMRS Decontamination Package Type III (Mass Technical Medical Decontamination) (NC)
SWOT Analysis

**Strengths**
- Mass Care
- Medical Surge
- Emergency Operations Coordination
- Fatality Management
- Environmental Response Health and Safety

**Weaknesses**
- Emergency Public Information and Warning
- Information Sharing
- Critical Transportation
- Non-Pharmaceutical Interventions
- Public Health Laboratory Testing
- Volunteer Management

**Opportunities**
- Increase number of personnel only, equipment only, single resource, and multi-state packages
- Exercise use of packages more frequently
- Create state and regional MRP work groups

**Threats**
- Failure to diversify types of packages created
- Failure to exercise use and deployment of MRPs
- Failure to create and sustain work groups to ensure future MRP su
“…the ability to build and sustain capabilities that can be deployed not just on a local level, but on the regional and national levels as well—creating an interconnected network of local, tribal, state, regional and national capabilities to increase the security of the whole nation.”

-Craig Fugate
Next Steps for Sustainability

• Formation of Region IV-UPC workgroup
• Examine regional capability
• Natural partnerships to fill regional gaps
• Continue to develop best practices
Partnerships

• North Carolina Department of EMS
• Gary del Moro, Hackensack University Medical Center
• Center for Emergency Services, University of Mississippi Medical Center
• South Central Public Health Partnership, University of Alabama-Birmingham
• Lisa Peterson, NEMA/ASTHO Mission Ready Packages Workgroup
Questions?

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