

MARYLAND-NATIONAL CAPITAL REGION EMERGENCY RESPONSE SYSTEM



NCR
MARYLAND

*Building and Enhancing Interjurisdictional and Interdisciplinary Emergency
Response Capabilities in Montgomery and Prince George's County, Maryland.*

Fiscal Year 2016 Annual Report

June 1, 2017 – May 31, 2018

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The National Capital Region (NCR) encompasses the District of Columbia and twenty-one metropolitan Washington local jurisdictions in Virginia and Maryland.

The NCR's concentration of residents, tourists, jurisdictions, authorities, critical infrastructure, wealth, cultural touchstones, and commercial facilities is unlike any other region in the United States. This population produces a distinct risk profile that reflects the region's unique operating environment.

The Maryland-National Capital Region (MD-NCR) Emergency Response System (MDERS) represents Montgomery and Prince George's County, Maryland.

The NCR has endured numerous natural and man-made crises in recent years that led to extensive examinations of, and changes to, the NCR's preparedness, priorities, and overall coordination.

In an effort to address these threats, funds from the Department of Homeland Security's Urban Area Security Initiative (UASI) grant program are allocated to the National Capital Region. This program assists high-threat, high-density Urban Areas in efforts to build and sustain the capabilities necessary to prevent, protect against, mitigate, respond to, and recover from acts of terrorism.

Maryland ERS works with response agencies in Montgomery and Prince George's Counties to build and sustain critical response capabilities. Much of this work is supported by the UASI funds allocated to the NCR.



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MARYLAND – NATIONAL CAPITAL REGION EMERGENCY RESPONSE SYSTEM

FISCAL YEAR 2016 ANNUAL REPORT

MESSAGE FROM THE DIRECTOR

The Maryland-National Capital Region Emergency Response System (MDERS) was instituted to optimize emergency response to routine and large-scale incidents. By coordinating amongst multiple agencies and disciplines through a regional approach, preparedness is enhanced and interoperability ensured. The core partners include local, county, and state stakeholders from Fire/Rescue/Emergency Medical Services, Law Enforcement, Hospitals, Public Health, and Emergency Management. Beyond local coordination, MDERS works closely with the neighboring Emergency Response Systems of Northern Virginia and the District of Columbia to standardize response throughout the National Capital Region.

Fiscal Year 2016 has been another very successful period for MDERS. Supported by a multi-million-dollar federal Urban Area Security Initiative grant, the program has taken major steps to improve interoperable response capabilities in Montgomery and Prince George's Counties. These enhancements address some of the most significant threats to the Region that transcend traditional disciplinary boundaries. This report is intended to provide an overview of the activity and accomplishments of the program during this period.

Since 2014, the staff and stakeholders have applied a capability-based approach to efforts undertaken by the organization. This approach, based on measurable target outcomes, encompasses all aspects necessary to operationalize and achieve the target. This includes Planning, Organization, Equipping, Training, Exercises, and Evaluation. The approach has emphasized comprehensive planning throughout the project lifecycle in order to most effectively and efficiently achieve target response capabilities and capacities throughout the Region. Fiscal Year 2016 was the second complete budget cycle during which this approach was applied consistently for the entirety of the period. The results of the new approach have offered holistic solutions to complicated and interdependent capabilities.

To better support the capability development process, MDERS continued with its current staffing strategy as identified by the Steering Committee. This includes a Director, a Planning and Organization Program Manager, two Emergency Response Planners, a Finance and Logistics Program Manager, a Logistician, a Financial Administrator, a Training and Exercise Program Manager, a Training Coordinator, and an Exercise Coordinator. The staff come together to create a comprehensive system of developing capabilities and supporting stakeholders achieve their mission areas.

The National Capital Region Homeland Security Executive Committee (NCR HSEC) directed several million dollars to be invested in Maryland MDERS staff, programs, and projects during Fiscal Year 2016. This has allowed the program to accomplish a number of initiatives towards building capabilities, including:

- Obtaining mobile emergency medical services equipment, including cardiac monitors, defibrillators, mechanical CPR devices, and laryngoscopes, to outfit five additional advance life support (ALS) units during surge periods.
- Acquiring wireless vital sign monitors for Medical Ambulance Buses to allow for monitoring and treating multiple patients simultaneously.

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- Providing fire and rescue departments with high fidelity manikins to enhance their medical skills.
- Ascertaining mobile software to allow for accurate medication calculation for field providers.
- Obtaining a trailer and Training and Exercise Cache to provide deployable support for educational events without relying upon outside contractors.
- Extending the Tactical Emergency Casualty Care (TECC) continuum by providing each of the twelve Maryland-NCR hospitals with a hemorrhage control cache, each designed to treat up to 100 patients, which include tourniquets, hemostatic gauze, and pressure dressings.
- Providing public access hemorrhage control kits to each of the twelve Maryland-NCR hospitals.
- Increasing supine capacity at all Maryland-NCR hospitals by providing each with twenty deployable treatment cots.
- Procuring an additional 2,020 Duodote Auto-Injectors to treat first responders who have been exposed to chemical nerve agents
- Adding two Northern Virginia jurisdictions and the District of Columbia to the FirstWatch situational awareness platform, increasing regional collaboration and coordination on routine and large-scale events.
- Providing Prince George's and Montgomery County Police Departments with six additional quick response vehicles for Specialized Weapons and Tactics (SWAT) officers.
- Outfitting SWAT personnel with additional tactical equipment, including night vision, thermal imaging devices, breaching tools, simunitions, and ballistic shields.
- Ascertaining vehicles and equipment to outfit public health agencies with the ability to promptly respond to emergency incidents and establish command.
- Acquiring Direct Trauma Care bags for all pieces of frontline apparatus in Montgomery County Fire and Rescue to allow for immediate treatment of life-threatening injuries consistent with acts of violence.
- Outfitting Montgomery County Fire & Rescue Service and Prince George's County Fire and EMS Department with ballistic protection to allow for treatment of victims in potentially hostile environments.
- Continuing to input asset information into a custom software suite that allows for resource management and inventory control across the region with user access for all partner agencies.
- Obtaining and customizing incident command system software for all public safety entities within the Maryland-NCR for interoperable operational management.
- Offering 37 specialty training courses to response personnel, including travel to many world-renown programs and conferences.
- Delivering 31 discussion and functional exercises to evaluate the plans and operational readiness of response capabilities.
- Hosting the third annual Emergency Response Symposium, providing approximately 400 attendees with a full day of sessions presented by leadership and first responders of the Las Vegas Mass Shooting of October 1, 2017.

Further details on the highlighted projects above, as well as other initiatives completed over the past year, can be found throughout this report.

As we look back on the success of this past year, the staff and stakeholders look forward to continuing to build upon these capabilities and undertaking new ones in the coming year. Initiatives planned for Fiscal Year 2017 include support staff, the training/exercise program, creation and expansion of Command Competency Labs for fire/rescue, integration of prehospital patient care data with broader electronic healthcare records, Bomb Squad equipment, unmanned aeriels systems, public access trauma kits, mass

Maryland-National Capital Region Emergency Response System

casualty incident response support, continued expansion of FirstWatch in the National Capital Region, and a variety of tactical equipment for law enforcement agencies.

On behalf of the stakeholder agencies and the citizens they serve, I extend a great deal of gratitude to the National Capital Region Homeland Security Executive Committee for continuing to acknowledge the value in inter-jurisdictional and interdisciplinary response. The support and financial investments of this leadership body have provided a means to accomplish enhancements that would otherwise be impossible.

I extend further gratitude to the Maryland Institute for Emergency Medical Services Systems (MIEMSS). The agency has administered the financial, personnel, and procurement aspects of the Emergency Response Program since its inception. Its staff offers countless hours and immeasurable effort to supporting the community by assisting in building the response capabilities. The continued support of MIEMSS is invaluable to the existence and success of the ERS program.

I also extend thanks to the representatives of the stakeholder agencies who serve on the Steering Committee, providing ongoing strategic direction for the program. Likewise, we are grateful to the countless subject matter experts from the agencies that lend their time to building these regional capabilities.

I congratulate the stakeholders and staff for all the accomplishments that are detailed in this report. Your efforts benefit the overall response capacity, thereby enhancing the service to the citizens we serve. I look forward to continuing to work with our response community to further grow our capabilities in the coming years.

Kind Regards,



Luke Hodgson
Director
Emergency Response System
Maryland-National Capital Region

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MARYLAND-NATIONAL CAPITAL REGION EMERGENCY RESPONSE SYSTEM

MISSION

“To support the integration of fire, rescue, emergency medical services, law enforcement, emergency management, public health, and healthcare systems to ensure a coordinated response to emergency incidents through strategic planning, information sharing, training, exercises, equipment acquisition and evaluation.”

VISION

“To serve as the single point of collaboration between all disciplines involved in emergency response in order to achieve integration to optimize all capabilities and provide superior service to the residents and visitors of Montgomery and Prince George’s Counties.”

ORGANIZATION

The Maryland-National Capital Region Emergency Response System (MDERS) was organized in 2014 to support the development of coordinated emergency response in Montgomery and Prince George’s Counties. The disciplines represented in MDERS include Fire/Rescue/Emergency Medical Services, Law Enforcement, Critical Healthcare Facilities, Emergency Management, and Public Health. Direction is provided by a Steering Committee composed of representatives from all five disciplines from each county as well as the state.

The main MDERS Office is located at 5111 Berwyn Road, Suite 110, College Park, MD 20740 and houses the Director, the Planning and Organization Staff, and the Finance and Logistics Staff. Training and Exercise Staff are housed at the Montgomery County Public Safety Headquarters, 100 Edison Park Drive, Gaithersburg, Maryland 20878. The Maryland Institute for Emergency Medical Services Systems (MIEMSS) serves as the fiscal agent and administrative home for the MDERS.



METHODOLOGY USED FOR CAPABILITY DEVELOPMENT

MDERS uses the POETEE process for planning. POETEE is an acronym for the six critical elements of capability development planning for its stakeholder agencies, including Planning, Organization, Equipment, Training, Exercises, and Evaluation. As the final step in the cycle, Evaluation allows the process to begin again, informed by the strengths developed and gaps identified. The POETEE resource elements are solution areas that MDERS invests in to build and sustain capabilities.

Planning: *The development of policies, plans, procedures, mutual aid agreements, strategies, and other publications that comply with relevant laws, regulations, and guidance necessary to perform assigned missions and tasks.*

Organizing: *The development of individual teams, an overall organizational structure, and leadership at each level in the structure that comply with relevant laws, regulations, and guidance necessary to perform assigned tasks. Organization includes paid and volunteer staff who meet the qualification and certification standards necessary to perform their duties.*

Equipping: *The acquisition, deployment, maintenance, and tracking of equipment, supplies, and systems that comply with relevant standards necessary to support missions and tasks.*

Training: *The development and delivery of various forms of instruction to ensure personnel are competent and capable of performing their assigned duties.*

Exercising: *Instruments such as tabletop discussions, functional drills, games, and full-scale multi-agency events that provide an opportunity to demonstrate, evaluate, and improve the ability to perform tasks to standards necessary to achieve successful capability outcomes.*

Evaluating: *Metrics are used to evaluate skill proficiency in practice, as well as determine field usage and success rates. Information used for evaluation is gathered from both exercises and real-world events.*



PLANNING AND ORGANIZATION PROGRAM

The goal of the Planning and Organization Program is to support multidisciplinary, regional planning for the development of established capabilities that will ensure optimum response to emergency incidents in Montgomery and Prince George's Counties and throughout the National Capital Region.

The Planning and Organization Program

Planning is an integral part of the capability building cycle. It encompasses needs assessment, research, development, and evaluation. The Planning Team works with the Finance and Logistics Program to assist in the development of equipment guidance and standards of use. The team also works with the Training and Exercise Program to develop training to improve the capabilities identified and exercises to test those capabilities. This is part of the Evaluation process, which also includes the tracking of metrics identified in Capability Development Plans.

Planning and Organization Program Management

The Program Manager works with other Program Managers to coordinate the development of capability development plans and related guides. This includes gap analyses, literature reviews, stakeholder interviews, subject matter expert conceptualizing, regular interface with all stakeholder agencies, and project development workshops. The Program is also responsible for the development of the MDERS Annual Report, the MDERS Strategic Plan update and other key documents, as well as maintaining the MDERS website, www.MDERS.org.

Methodology

The Planning and Organization Program coordinates multiple work groups of stakeholders and subject matter experts that are an integral part of capability development. These groups provide the agency- and region-specific input to assist with gap analysis and needs assessments, which are the foundational information for writing capability development plans. The groups also use information found in after action report documents from all stakeholder agencies following the responses to large-scale incidents within the region, as well as various planned events, such as Presidential Inaugurations and exercises.

The Planning Team works closely with the Maryland Emergency Management Agency (MEMA) Disabilities, Access and Functional Needs (DAFN) workgroup and the Maryland Department of Disabilities (MDOD) on developing tools for use in all planning efforts.

In addition to these workgroups, input is sought from the Region V Emergency Preparedness Coalition, which includes representation from hospitals, critical healthcare facilities, EMS, public health, and emergency management. The Maryland Department of Health (DOH), MDOD, MEMA, Maryland Institute for Emergency Medical Services Systems (MIEMSS), and Maryland State Police (MSP), among others, provide state guidance and support for MDERS planning efforts. MDERS staff also collaborate across the NCR through participation in Metropolitan Washington Council of Governments (MWCOG) regional planning committees, including Regional Programmatic Workgroups, Emergency Support Functions, and the Advisory Council. It also participates in initiatives such as the annual NCR Threat and Hazard Identification and Risk Assessment (THIRA).

The Planning and Organization Staff

The Planning and Organization Staff consists of the Program Manager and two full time planners assigned and utilized as needed to participate in all the various planning program activities.

FINANCE AND LOGISTICS PROGRAM

The goal of the Finance and Logistics Program is to develop, maintain, improve, and coordinate the fiscal, procurement, and resource management responsibilities of the MDERS staff and stakeholders.

The Finance and Logistics Program

Equipping and tracking assets is an integral part of the capability building cycle. The Finance and Logistics Team works with the Planning and Organization Program in the development of policies, procedures, guidance, and standards of use for all assets, including the Training and Exercise Program for all necessary training and subsequent evaluation. This Program directs all purchases of equipment and supplies required to fulfill the capabilities being developed or enhanced. It also assists stakeholder agencies with sustainment planning to ensure the developed capabilities can be maintained.

Finance and Logistics Program Management

The Program Manager oversees the financial aspect of all capability development plans and related documents, manages the purchase of equipment and resources to support the MDERS staff and its mission, and directs related financial tracking responsibilities.

Methodology

The Finance and Logistics Program works through the entire capability development cycle. From generating budgets to submitting to grant proposals to purchasing equipment, the program is an integral contributor to the process. Once the equipment and supplies are purchased, the program tracks the items, oversees deployment, and plans for maintenance and replacement. The program also handles all financial matters, including seeking grant reimbursement for all organization expenditures.

Finance and Logistics Program Staff

The Finance and Logistics Program staff consists of the Program Manager, a Logistician who fulfills multiple responsibilities across both stakeholder counties, and a Financial Administrator who fulfills multiple accounting, budgetary, and procurement responsibilities.

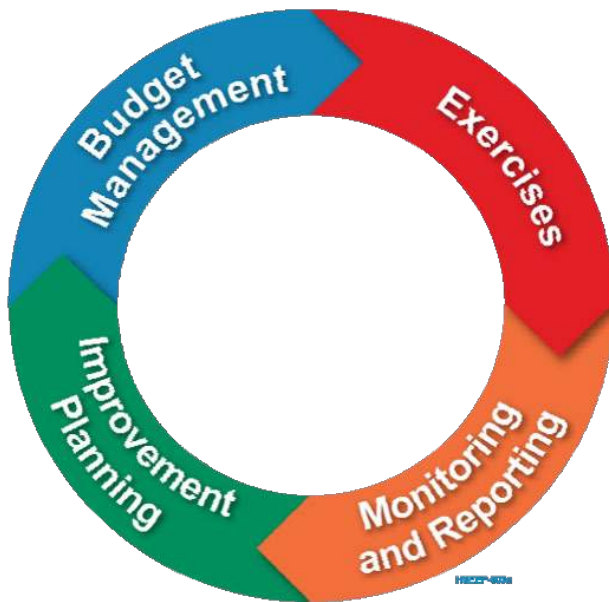
TRAINING AND EXERCISE PROGRAM

The goal of the Training and Exercise (T&E) Program is to establish and maintain an effective exercise and training program that coordinates and integrates with the Planning and Organization and Finance and Logistics Programs to support the development and evaluation of targeted response capabilities for stakeholders in Montgomery and Prince George's Counties.

The Training and Exercise Program

The Training and Exercise Program is an integral part of the capability building cycle. It leads the training, exercising, and evaluating phases of capability development and coordinates with other MDERS programs to assist in the planning, organizing and equipping phases.

Training and Exercise Program Management



There are four main components of Training and Exercise Program Management:

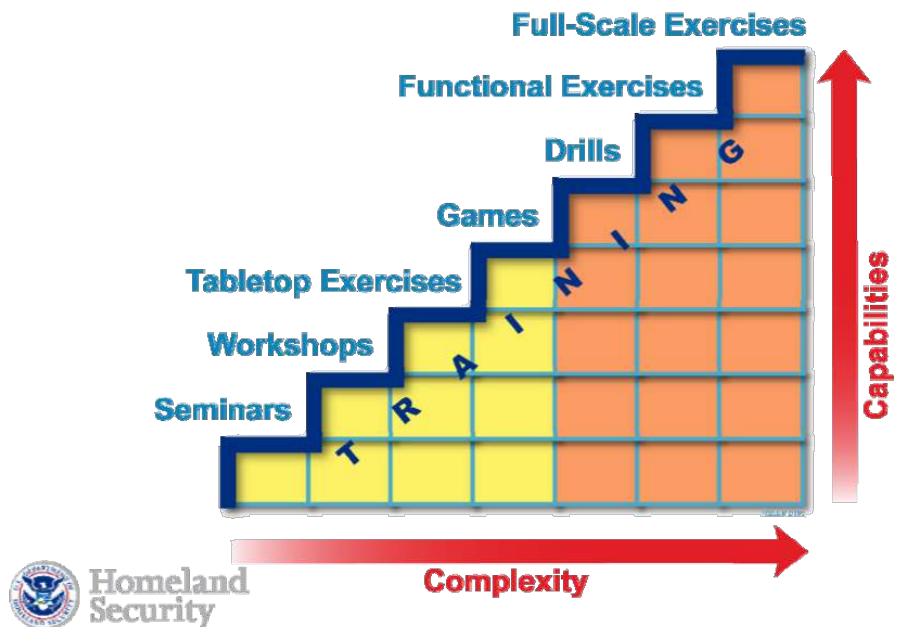
Budget Management: Coordinates available funding and manages budget responsibilities.

Training and Exercises: Oversees the development of a multi-year training and exercise plan that supports the development of stakeholder targeted response capabilities. Exercises are conducted in a manner consistent with the Homeland Security Exercise and Evaluation Program (HSEEP), ensuring that, as capabilities are developed, they are tested and evaluated in a manner that reflects the complexity of the current expected state of the capability.

Monitoring and Reporting: Monitors Training and Exercise activities to ensure that program goals are met and actively participates in exercise development, conduct, evaluation, and improvement planning.

Improvement Planning:

Ensures that the improvements identified in exercises or real-world incidents are communicated to appropriate stakeholders. The Program Manager works with MDERS program staff to track the improvement process and ensures the improvements are incorporated into future plans and exercises, and evaluated to test the status of the upgraded capabilities.



Training and Exercise Project Management

The Homeland Security Exercise and Evaluation Program (HSEEP) is an accepted national standard for planning, conducting, and evaluating exercise activities. MDERS ensures that all sponsored exercises follow HSEEP guidelines. The primary components of the HSEEP project management process are:

- Design and Development: Identify exercise objectives, design scenario, and design evaluation process.
- Conduct: Conduct the exercise based upon injects provided by the exercise staff to the exercise players.
- Evaluations: Evaluate exercise player performance against the standards identified in the targeted response capabilities. The exercise planning team will then create a written evaluation report and an improvement plan.



Training and Exercise Program Personnel

The Training and Exercise Program has three assigned personnel – the Program Manager, the Training Coordinator, and the Exercise Coordinator. The Program Manager oversees all MDERS training and exercise activities that include program and project management. The Training Coordinator oversees, coordinates, and supports the delivery of MDERS-sponsored training initiatives and conferences. The Exercise Coordinator oversees the design, development, conduct and evaluation of MDERS-sponsored exercises. To better serve our stakeholders, MDERS hired the Training Coordinator and the Exercise Coordinator during FY15 to foster the necessary focus in each area and better enable cost savings by conducting training and exercise initiatives using in-house subject matter experts (SMEs) instead of outside contractors. T&E Program personnel also provide support to stakeholders in planning, conducting, and evaluating their own training and exercise initiatives.

FY 2016 CAPABILITY DEVELOPMENT

The capabilities described in this report were developed based upon goals established in the MDERS Strategic Plan by the Steering Committee.

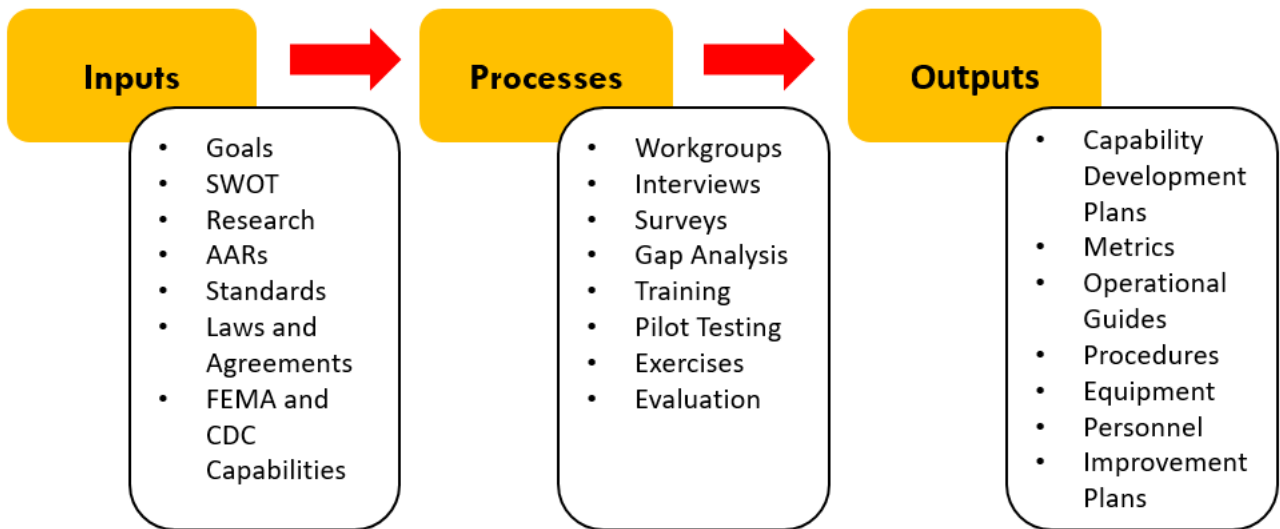
- Goal: The Maryland-National Capital Region emergency response partners can expeditiously, effectively, and efficiently respond to and mitigate an active violence event to minimize harm and impact to victims.
- Goal: The Maryland-National Capital Region emergency response partners are able to triage, treat, and transport to definitive treatment victims of a mass casualty incident in a coordinated, interagency and interdisciplinary response while maintaining the system's ability for continuity of operations.

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- Goal: The Maryland National Capital Region emergency response partners will establish and utilize the incident command system to coordinate response operations for all hazards events, including large scale, interagency, interdisciplinary responses.
- Goal: The Maryland National Capital Region emergency response partners will procure and operationalize equipment, health and safety tools for first responders to protect them from chemical, biological, and ballistic threats to an established extent.
- Goal: The Maryland National Capital Region emergency response partners will effectively track, deploy, and ensure stakeholder access to regional assets during mitigation of an incident.
- Goal: The Maryland National Capital Region emergency response partners will effectively communicate and share information at all times to maintain situational awareness.

Using the agreed upon goals as a starting point, a SWOT analysis (Strengths, Weaknesses, Opportunities, and Threats) was conducted by MDERS staff with the Steering Committee to identify target capabilities. A regional gap analysis was completed which further refined these capabilities. The Steering Committee then prioritized capabilities based upon the SMART (Specific, Measurable, Achievable, Realistic, and Time-phased) criteria.

The graph below provides a snap shot of that development process.



This report contains summaries of capability development that occurred through MDERS in FY16 for the following capabilities:

- Emergency Medical Services Surge Capacity
- Training and Exercise Program
- MDERS Training and Exercise Cache
- Hospital Cache
- Emergency Responder Medical Cache
- FirstWatch Situational Awareness
- Quick Response Vehicles – Montgomery and Prince George’s County Police Departments
- Law Enforcement Special Operations Equipment
- Public Health Response Vehicles and Incident Command System
- Shared Resources
- Hospital Surge Equipment & Hemorrhage Control Supplies
- Tactical Medical Equipment & Ballistic Protection Equipment - Prince George’s County Fire/EMS Department
- Tactical Medical Equipment & Ballistic Protection - Montgomery County Fire & Rescue Service

COMPLEX COORDINATED ATTACK (CCA)

In Fiscal Year 2016, the Homeland Security Executive Committee (HSEC) awarded \$1.8 million to the National Capital Region Complex Coordinated Attack (CCA) Workgroup. This interdisciplinary, interjurisdictional workgroup was charged with identifying investments that would enhance the Region’s preparedness for a CCA event. One of the investments identified by the group was ballistic protection and tactical medical equipment for fire/rescue/EMS personnel who may be operating in a volatile environment. The Workgroup asked MDERS to manage the acquisition of this equipment for the Maryland-NCR fire/rescue agencies. MDERS provided the project management for the \$621,806 in purchases to support this capability for Montgomery County Fire & Rescue Service and Prince George’s County Fire/ EMS Department.

Information on the specific programs funded through the CCA Workgroup and managed by Maryland ERS can be found in the following sections:

- Tactical Medical Equipment and Ballistic Protection for the Prince George’s County Fire/EMS Department (pages 48 & 49)
- Tactical Medical Equipment and Ballistic Protection for the Montgomery County Fire & Rescue Service (pages 50 & 51)

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Emergency Medical Services (EMS) Surge Capacity

QUICK FACTS:

This project provides Advanced Life Support (ALS) Surge capability to the Prince George's Fire/EMS Department and Montgomery County Fire & Rescue Service by creating readily accessible and deployable caches of ALS equipment to upgrade existing EMS units, as needed, or placing additional units in service during a surge.

Distribution:

Number	Item	Amount
10	Storage containers	\$15,670.00
5	ALS response bags	\$51,900.22
5	Portable suction units	\$4,566.00
5	Video laryngoscopes	\$29,237.93
5	Cardiac monitors	\$182,625.00
2	Handtevy Medical System	\$37,988.71
1000	Evacuation litters	\$16,490.00
6	Wireless vital sign monitors	\$36,693.11
2	Patient care mannequins	\$87,626.60
Total	UASI FY 16	\$462,797.57

Capability:

The MD-NCR emergency response partners are able to triage, treat, and transport to definitive treatment victims of a mass casualty incident in a coordinated, interagency and interdisciplinary response while maintaining the system's ability for continuity of operations.

Outcomes:

This project is designed to enhance the MD-NCR ALS capability by creating readily accessible and easily deployable caches of equipment to turn Basic Life Support (BLS) units or other first responder apparatus into ALS-capable units that can expand lifesaving capabilities in the NCR.

This project purchased equipment and supplies to increase and enhance the capability and capacity for MD-NCR first responders to respond to mass casualty incidents, including those created by terrorist events, such as Complex Coordinated Attacks.

This program aligns the MDERS Strategic Plan with local fire department capability development activities and the NCR Homeland Security Executive Committee Regional Guidance document. That result is interoperable processes that deliver ALS resources at the correct time to expand capacity and delivery to the region.



EMS Surge Capacity

15 kg	20 kg	25 kg
Epi 1:1,000 IM 0.15 mL	Epi 1:1,000 IM 0.2 mL	Epi 1:1,000 IM 0.25 mL
Epi 1:10,000 IV 1.5 mL	Epi 1:10,000 IV 2 mL	Epi 1:10,000 IV 2.5 mL
Amiodarone 1.5 mL	Amiodarone 2 mL	Amiodarone 2.5 mL
Bicarb 8.4% 15 mL	Bicarb 8.4% 20 mL	Bicarb 8.4% 25 mL
D ₅ W 30 mL	D ₅ W 40 mL	D ₅ W 50 mL
Normal Saline 300 mL	Normal Saline 400 mL	Normal Saline 500 mL
Lorazepam 0.75 mL	Lorazepam 1 mL	Lorazepam 1.25 mL
"Diazepam IM/IN 0.6 mL	"Diazepam IM/IN 0.8 mL	"Diazepam IM/IN 1 mL
ETT / King / LMA 80 / 2 / 2	ETT / King / LMA 80 / 2 / 2.5	ETT / King / LMA 80 / 3 / 2.5

10 kg	30 kg
Epi 1:1,000 IM 0.1 mL	Epi 1:1,000 IM 0.3 mL
Epi 1:10,000 IV 1 mL	Epi 1:10,000 IV 3 mL
Amiodarone 1 mL	Amiodarone 3 mL
Bicarb 8.4% 10 mL	Bicarb 8.4% 30 mL
D ₅ W 20 mL	D ₅ W 30 mL
Normal Saline 200 mL	Normal Saline 600 mL
Lorazepam 0.5 mL	Lorazepam 1.5 mL
"Diazepam IM/IN 0.4 mL	"Diazepam IM/IN 1.2 mL
ETT / King / LMA 60 / 1 / 2	ETT / King / LMA 80 / 3 / 3

The Handtevy™ Pediatric Code

*NOTE: The Diazepam IV dose is HALF (50%) the volume of the listed Diazepam IM / IN dose.
PEC 2014, ver 18

Advanced pediatric drug calculation applications and mannequins deliver tools and training for first responders. The Handtevy medication calculation system provides rescuers a practical hands-on technology tool for managing pediatric emergencies. Used from the iPhone platform, the system is based on a simple hand counting calculation method to determine the child's weight and medication dosage. Benefits of this system include safe and secure medication calculation, suggested administration routes to the patient, and quality assurance monitoring through compliance architecture based on the Maryland Medical Protocols for Emergency Medical Services Providers.



The Rescue Essentials QuikLitter features ten large hand-holds, four on each side and one each at the head and foot, allowing for easy patient handling. With a load capacity tested to 500 pounds, it can be employed for everyday use as a soft stretcher, as a backboard lift assist, as well as Mass Casualty Incident (MCI) emergency patient transport. This equipment is part of the trauma bag inventory carried by the Prince George's County Fire/EMS Department and Montgomery County Fire & Rescue Service.



The Wireless Vital Signs Monitor (WVSM) is affordable, fast and easy to use. It attaches to a patient quickly and stays with the patient from point of injury to the treatment center where patient data and history is automatically downloaded. Each device allows the provider to continuously monitor the patient's pulse, cardiac rhythm, and pulse oximetry reading. With hands-free technology, personnel can focus on life-saving interventions. The WVSM will be placed on the Medical Ambulance Buses in each county to allow for simultaneous monitoring of multiple patients with minimal providers.



Training and Exercise Program

QUICK FACTS

Projects:

- 1 Education Symposium
- 31 Homeland Security Exercise & Evaluation Program (HSEEP) discussion-based and operational exercises.
- 37 separate sponsored training events.

Special Events:

“Symposium 2018: Interdisciplinary Response to Terrorism and Mass Casualty Incidents -The 2017 Las Vegas Shootings” with 420 participants.

Topics:

MDERS and community partners explored the interdisciplinary response to terrorism and mass casualty incidents through the lens of the recent Las Vegas Shooting Mass Casualty Incident (MCI).

Subgrantee:

Maryland Institute for Emergency Medical Services Systems (MIEMSS).

MDERS Budget:

This budget does not consider personnel costs.

Number	Item	Amount
1	Symposium	\$47,175.14
37	Training	\$345,245.16
30	Exercise	\$101,849.70
Total	UASI FY16	\$494,270.00

Capability:

All MDERS targeted capabilities are supported with a robust training and exercise program that is integrated with planning, financial, and logistics functions.

Outcomes:

- Interdisciplinary Response to Terrorism and Mass Casualty Incidents at the 2017 Las Vegas Shootings.
- Homeland Security Exercise and Evaluation Program-compliant.
- Compare and contrast the approach of the inter-disciplinary response to an MCI in the National Capital Region (NCR) with other regional response methods.
- 37 training and conference programs delivered to MD-NCR personnel.
- Designed, developed, and delivered 8 Tabletop-in-a-box (TTBX) workshops for the Prince George's Fire/EMS Department that serve as a basis for capability development planning for the future.
- Training and Exercise Planning Workshop for Mass Casualty Incidents delivered to the MIEMSS Region V Hospital Coalition- a step towards capability development for the coalition.
- Deployed 6 Incident Command System (ICS) table-top-in-a-box (TTBX) kits for mobile training and exercise.



Training Program

The Training & Exercise Program offers a number of opportunities for MDERS partners to develop and build capabilities. Many of these opportunities are outside of the NCR and require staff time for coordination of registration, travel, and lodging arrangements and reimbursement. The following table provides a quick glance for discipline training and a follow-up list of specific initiatives.

TABLE FOR IDENTIFICATION OF GROUPS AND ABBREVIATIONS

Group	Abbreviation
Law Enforcement	LE
Fire Based Emergency Medical Services	EMS
Maryland-National Capital Region Emergency Response System	MDERS
Public Health	PH
Hospitals	HOSP
Emergency Management	EM

Disciplines	Target Capability	Total Training / Conferences	Local Training	Travel Training
Hospitals, EM	Mass Casualty Incident	1	Y	
LE/EMS	High Threat Medicine	6	Y	Y
HOSPITALS/PH/EM	Incident Command System	2	Y	
LE/PGPD	LE Tactical	5		Y
LE/PGPD	LE Tactical Command	2		Y
ALL	Mass Casualty Response	1	Y	
MDERS	MCI/ICS	6	Y	
EMS	TECC/ICS	6	Y	Y
LE/MCPD/PGPD	SWAT	4		Y
LE/MCPD/PGPD	Rappelling	3		Y
LE	Search Operations	1		Y
Totals		37	16	21



Personnel from local law enforcement agencies are seen participating in close quarter combat training. This program is one of the regional training opportunities that links law enforcement agencies in training. Formulation of interdepartmental and interagency relationships is a foundational component of the MDERS strategy. When organizations are provided the capacity to train together, the environment allows the opportunity to share information, view new tactics, procedures and policies, and develop relationships.

FY16 Training Initiatives	Event Summary	Location	Discipline	Agency	Date
7th Annual Breacher's Circle	Multi-agency interactive breaching workshop/training for operational breachers. The main objective of this training is to provide tactical operators with the ability to interact and learn from their peers through tactical explosive breaching as well as mechanical, ballistic, and exothermic breach training.	MS	LE	PGPD	03/2018
AGI - Adobe INDesign Training	Introduction to Adobe design to create designs for print, tablets, and PDF presentations.	MD	MDERS	MDERS	09/2018
ALERTT at Texas University	Research based interdisciplinary active shooter response training provided by the University of North Texas. Special focus on Tactical Emergency Casualty Care (TECC).	TX	LE, EMS	MCFRS, MCPD, PGFD, PGPD	11/2017
ATSCC- Field Based Training (Live Tissue Training)	Ballistic lab demonstrations & didactic presentation on the effects of ballistic wounds; practical procedures and skills lab for hemostatic agents & bandages, tourniquets and other medical devices; and a practical exercise.	VA	LE, EMS	PGFD	04/2018

FY16 Training Initiatives	Event Summary	Location	Discipline	Agency	Date
Counter Narcotics and Terrorism Operational Medical Support (CONTOMS)	Specialized medical training to support law enforcement and special operations. Training for the medical personnel supporting special response teams includes TECC-related skills and austere environments.	DC	LE, EMS	MCFRS	02/2018
Continuity of Operations (COOP) for Public Entities	Interactive and comprehensive training on how to develop and maintain continuity of operations (COOP) in the face of various hazards. Students obtain the knowledge and materials to develop, implement, and exercise comprehensive COOP for their agency.	MD	EM, Hospitals, PH	MCOEM, PGOEM	12/2017
C-TECC	Committee on Tactical Emergency Casualty Care (C-TECC) is the cornerstone of the efforts to distribute and educate first responders on the principles of TECC. The annual meeting allows opportunities for key stakeholders to discuss updates related to the application and provision of best practices and changes to national guidelines.	MA	EMS	MCFRS, PGFD, PGPD, MCPD	12/2017
Direct Action Resource Center (DARC) 1	Level 1 Counterterrorism training: Close quarters battle (CQB) techniques for SWAT for CCA response operations. Also includes EMS, communications, and coordination of patrol immediate action teams (IATs) to counter a CCA attack.	AR	LE	PGPD	10/2017
Direct Action Resource Center (DARC) 1	Level 1 Counterterrorism training: Close quarters battle techniques for SWAT for CCA response operations. Also includes EMS, communications, and coordination of patrol immediate action teams (IATs) to counter a CCA attack.	AR	LE	PGPD	01/2018
Direct Action Resource Center (DARC) 1	Level 1 Counterterrorism training: Close quarters battle techniques for SWAT for CCA response operations. Also includes EMS, communications, and coordination of patrol immediate action teams (IATs) to counter a CCA attack.	AR	LE	PGPD	04/2018

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FY16 Training Initiatives	Event Summary	Location	Discipline	Agency	Date
Direct Action Resource Center (DARC) 2	Level 2 Counterterrorism training (Live Fire): Tactics, techniques, and procedures for countering swarm attacks, explosive and ballistic breaching, hostage rescue, use of night vision in high threat environments and other response skills.	AR	LE	PGPD	10/2017
Direct Action Resource Center (DARC) Advanced Operational Breaching	Training around the Breach Team supervisor and advanced assaulter-breacher concepts. The training focuses on operational safety, effective breaching and contingencies against interior and exterior targets. Emphasis is placed on breach team leadership, and hasty deployment counter terrorism operations.	AR	LE	PGPD	11/2017
Direct Action Resource Center (DARC) Level1 Breaching	First level assaulter-breacher course designed to train operators in safe, practical and effective explosive breaching for tactical operations.	AR	LE	PGPD	04/2018
Domestic Terrorism & Mass Casualty Incidents Insight Exchange Network	Informational exchange/seminar on the best practices for preparing for and responding to MCI and Domestic Terrorism. This training focused on three case studies in discussing both local national, and international response to terrorism and MCI.	DC	LE, EMS, EM, Public Health, and Hospitals	MCFRS, MCPD, PGFD, PGPD	11/2017
EMS World	Annual conference with active shooter, disaster response, and various EMS MCI and terrorism response topics for the discipline. This training provides opportunities for leaders and providers to gain the latest in evidence-based practice from industry leaders.	NV	EMS	MCFRS, PGFD	10/2017
FAA UAS Conference Symposium	Symposium that provided a platform for UAS industry leaders to share research, regulations and use-case procedures for UAS capacity, and capability.	MD	EM, EMS, LE, MDERS,	PGFD, MCFRS	03/2018
H3 Rappel Master Instructor Training	Train-the-Trainer on basic rappel techniques and instruction.	MD	LE	PGPD, MCPD	09/2017

Maryland-National Capital Region Emergency Response System

FY16 Training Initiatives	Event Summary	Location	Discipline	Agency	Date
H3 Urban Climbing Course	Rappel techniques in an urban environment.	MD	LE	MCPD	09/2017
International Association of Fire Chiefs (IAFC) HazMat Conference	The training offered at the Hazmat Conference provides immediate, practical and valuable information designed to ensure you successfully meet the demands of hazmat response in today's challenging environment.	MD	Fire/EMS	MCFRS, PGPD,	06/2017
ICS Tool Box Train-the-Trainer	A training and workshop for staff to learn the practical applications for the Table-Top-in-a Box (TTB).	MD	MDERS	PGFD	10/2017
Inlets Elements of an Active Shooter	An Intelligence and law enforcement training seminar addressing the topic of understanding and preparing for and responding to active shooter incidents.	MD	MDERS	PGFD, MCFRS, MCPD	02/2018
International Association of Chief of Police (IACP) Annual Conference	Numerous Department of Homeland Security and Emergency Management sessions at this conference which recommends a number of best-practices and model policies.	PA	LE, MDERS	PGPD, MCPD	10/2017
International Breacher's Group Symposium	Seminar/Training on breaching methodology and debriefs on various breaching incidents. This is an event that offers data analysis, and research in all breaching methodologies.	TN	LE	PGPD, MCPD	11/2017
International Public Safety Association Conference	Conference addressing active shooter and MCI with a tabletop exercise and discussions around the Las Vegas incident.	AZ	EM, MDERS	MCFRS, MCPD, PGFD, PGPD	02/2018
International Mountain. Survival High Angel Sniper Training	Training in high angles related to preparing for and responding to terrorist or sniper activity from above or below.	NV	LE	PGPD	04/2018
Journal of Emergency Medical Services	A national EMS conference that focuses on dynamic active threats and mass casualty management, including a training track specifically related to active assailant EMS response operations.	NC	EMS, MDERS	MCFRS, MCPD, PGFD, PGPD	02/2018

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FY16 Training Initiatives	Event Summary	Location	Discipline	Agency	Date
Medstar Emergency Management Summit	Annual event sponsored by MDERS stakeholders that addresses MCI and terrorist activities from the lens of the healthcare industry.	DC	MDERS	MDERS	03/2018
National Healthcare Coalition Preparedness Conference	Annual healthcare coalition conference addressing the issues and needs of healthcare coalitions in preparing for and responding to all-hazards, incidents.	CA	PH, Hospitals, MDERS	PGPH, MCPH, Hospitals	11/2017
National UASI Conference	The Annual National Homeland Security Office addressing all relevant issues related to planning, organizing, equipping, training, exercising and evaluation on homeland security and federal grants for homeland security related matters. This conference provides a forum for staying abreast of homeland security trends and technology.	NY	EM, MDERS	MCOEM, MDERS	06/2017
Naval Weapons Sniper Course	Annual sniper summit: Tactics, techniques, and procedures as it relates to sniper operations, e.g., ballistics, team strengths and weaknesses, tracking technology, counter sniper technology, urban hides, legal reviews, etc.	VA	LE	PGPD	01/2018
National Fire Protection Association (NFPA) Conference	Conference to address NFPA 3000, which addresses Active Shooter/Hostile Event Preparedness and Response for EMS and the integrations and coordination of the response with public safety partners.	MA	EMS	PGFD	03/2018
NY Tactical EMS Expo	Education and Training expo for tactical medics and healthcare practitioners supporting tactical teams addressing medical preparedness and response in austere settings and included TECC skills training.	NY	LE, EMS	MCFRS, PGFD	01/2018
Pinnacle Conference	This EMS Leadership Conference is focused on senior and mid-level EMS managers. The conference addresses areas of capability development, measuring system performances, and best practices across the nation.	FL	EMS, MDERS	MDERS, MCFRS, PGFD	08/2017

Maryland-National Capital Region Emergency Response System

FY16 Training Initiatives	Event Summary	Location	Discipline	Agency	Date
Progressive Phase Mastery of Explosive Entry	This course provides comprehensive practical and technical training to operators. Students explore the science and application of explosives including calculation modules, live range demonstrations, exercises and examinations on explosive energy transfer concepts and breaching for close quarter battle (CQB).	CA	LE	PGPD	05/2018
Special Operations Medical Association (SOMA) Conference	Training around the art and science of special operations medicine including TECC. The focus of SOMA is to advance the science, technology, skills of unconventional medicine to improve the survival, reduce injury and accelerate recovery of those in tactical settings.	NC	LE, EMS	PGFD	05/2018
Urban Sniper Operations Training	Tactical operations course for snipers in an urban environment. Similar to the Woodland-Rural course except this course focuses on the urban environment and combines best practices and lessons learned in real world events on low and no light sniper operations, communication protocols, surreptitious tracking and observation and reporting techniques.	MD	LE	PGFD, MCPD	03/2018
Woodland-Rural Tactical Operations	Woodlands-Rural tactical operations course for snipers provided opportunities for operators to develop the knowledge, skills and abilities (KSAs) related to tactical movement in the woodlands-rural areas. This training includes such skills as land navigation, command and control protocol, sniper over watch, and formations and movement.	MD	LE	PGPD, MCPD	11/2017



Command staff from the Montgomery County Fire Rescue Service, Prince George's County Fire/EMS Department, and MDERS Director Hodgson review the Command Competency Lab at the Montgomery County Fire Rescue Service Public Safety Training Academy.



Members from the Prince George's County Fire/EMS Department, Montgomery County Fire Rescue Service, and MDERS staff plan the Emergency Medical Service Duty Officer Table Top in a Box training sessions.



Exercise Program

The Exercise Program section describes the high-level details of the types and kinds of activities completed during the year. Through this process, organizations can use exercises to examine current and required core capability levels and identify gaps. That information frames the next set of requirements to address the needed policy, resources, and metrics for improvement.

Exercise Name	Exercise Type	Exercise Date(s)	ERS Role	Lead Agency	Description of ERS Involvement
Water, Water Everywhere	Functional	05/09/17	Supporting	MC OEMHS	MDERS staff provided evaluation support for this exercise.
Region V Hospital	Full-Scale	05/23/17	Supporting	Region V	MDERS staff provided evaluation support for this exercise.
MCPD Code Red Training	Drill	06/12/17-6/14/17	Supporting	MCPD	Support Montgomery County Police on active shooter training.
Capability Planning Workshop	Workshop	07/12/17	Conducting	MDERS	This was a workshop with law enforcement, EMS, and MDERS staff on ICS, mass casualty management/triage, treatment and transport, and active violence incidents.
Capability Development Planning Workshop	Seminar	08/17/17	Conducting	MDERS	HSEEP 101 seminar with the Region V Emergency Preparedness Council (EPC).

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Exercise Name	Exercise Type	Exercise Date(s)	ERS Role	Lead Agency	Description of ERS Involvement
Capability Development Workshop	Workshop	08/29/17	Conducting	MDERS	On August 29, 2017, MDERS conducted a workshop with personnel from the Region V Hospital Coalition, Montgomery County Office of Emergency Management and Homeland Security, Prince George's County Office of Emergency Management, Montgomery County Department of Health and Human Services, and Prince George's County Public Health Department. The purpose of the workshop was to identify the current status of response capabilities and identify planning, organizing, equipping, training, and exercising activities that must be addressed to improve Incident Command System (ICS) and Treatment, Triage, and Transport (TTT). Furthermore, participants highlighted gaps within their organizations and made recommendations for how to close those gaps. MDERS personnel facilitated the workshop discussion by asking participants a series of standardized questions relating to the agencies' preparedness in the areas of planning, organization, equipment, training, and exercises for the specific capabilities.
Capability Development Planning Workshop for MCPD	Seminar	09/01/17	Conducting	MDERS	MDERS facilitated a workshop to define gaps in the response to an active shooter incident within a hospital.
Montgomery OEMHS Cyber Security Exercise for Senior Management	Workshop	09/14/17	Supporting	MCOEMHS	Planning Committee, Evaluator and Table Discussion Facilitator. MDERS also facilitated the creation of the news broadcast video through Montgomery College (MCTV) that was utilized in the workshop to add realism to the discussion.

Exercise Name	Exercise Type	Exercise Date(s)	ERS Role	Lead Agency	Description of ERS Involvement
Thunderbolt Strikes – Active Shooter	Functional	09/19/17	Supporting	MDERS	MDERS staff provided personnel to functional in roles as controller, evaluator, and support staff.
Capability Development Plan Workshop	Workshop	09/21/17	Conducting	MDERS	This workshop was conducted by MDERS with local hospitals to determine planning elements for active violent incidents that occur on or near the facility campus.
NCR Community Emergency Response Team Conference (CARTON).	Workshop	09/23 & 09/24/17	Supporting	PGOEM	PGOEM was the host of the annual CARTON. This two-day event provided numerous training opportunities for representatives from the DC, MD and VA community emergency response teams. MDERS staff conducted and presented workshops and training activities on two separate days.
Montgomery County Flu Clinic at three local high schools.	Full-Scale	11/09/17	Supporting	MCHHS	Staff supported the MCHHS as evaluators and controllers at various high schools throughout the county. While this was an actual flu clinic for the county, it was a simulated exercise for POD distribution.
Capability Development Plan Workshop	Workshop	11/20/17	Conducting	MDERS	MDERS Program Managers walked the entire staff through the Capability Development Plan writing process. This provided the staff with insight into the foundational work that leads to their eventual duties. It also served as an opportunity for staff, as the end users, to let the planners know what they need to best execute their specific mission.
NCR RESF 5 - Training & Exercise Subcommittee Training and Exercise Planning Workshop (TEPW)	Workshop	12/12/17	Supporting	RESF 5 - T&E Subcommittee	MDERS staff provided facilitation and note taking support for this workshop.

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Exercise Name	Exercise Type	Exercise Date(s)	ERS Role	Lead Agency	Description of ERS Involvement
MCI Hospital-OEM Workshop	Workshop	01/31/18	Conducting	MDERS	MDERS sponsored a Mass Casualty Incident Workshop for Hospital and Emergency Management stakeholders from both Montgomery and Prince George's Counties. The purpose of the workshop was to assess the stakeholders' preparedness level to respond to an MCI, identify areas for improvement, and to obtain recommendations for how to close preparedness gaps.
Prince George's County Fire and EMS Table-Top-in-a-Box-Beta Series	TTB	03/05/18 03/09/18 03/12/18 03/16/18 03/19/18 03/23/18 03/26/18 03/30/18	Conducting	MDERS	Throughout the month of March 2018, MDERS conducted a beta series of Table-Top-in-a-Box (TTB) exercises with personnel from the Prince George's County Fire and EMS Department. This exercise series was designed to engage stakeholders through interactive exercise play that included utilization of props and facilitated discussion. The goal of the exercise was to assess fire and EMS personnel's ability to manage a Mass Casualty Incident (MCI) utilizing the Incident Command System (ICS) and the application of a Virtual Incident Action Plan (IAP). Additionally, the exercise was designed to reinforce Fire and EMS personnel's knowledge and understanding of a responding unit's role in managing a MCI as the first unit on the scene.

Exercise Name	Exercise Type	Exercise Date(s)	ERS Role	Lead Agency	Description of ERS Involvement
MDERS Symposium	Workshop	05/02/18	Conducting	MDERS	This is the MDERS Annual Symposium where interdisciplinary and coordinated response to the October 1 Mass Casualty Incident in Las Vegas was explored. The objectives for the symposium were to network and exchange information among the stakeholders and identify lessons learned from the interdisciplinary response to a MCI. This year, MDERS added live-streaming to the event making it possible for approximately 500 participants to participate.
Post-Symposium Workshop	Seminar	05/02/18	Conducting	MDERS	An opportunity for local law enforcement and fire and EMS representatives to discuss response tactics with fire and law enforcement representatives to the October 1 Las Vegas Incident.
Region V EPC Full Scale Exercise	Full-Scale	05/03/18	Supporting	Region V EPC Hospital Coalition	MDERS staff served as evaluators and observers for this exercise.
Epic Collaboration	Functional	05/03/18	Supporting	MCOEMHS	Assisting OEMHS planning personnel as a part of MEPP course work. Evaluated College Senior Leadership.
Prince George's County OEM EOC Functional Exercise	Functional	05/07/18	Supporting	Prince George's County OEM	MDERS staff served as evaluators and provided SIMCELL support.
Montgomery County Office of Emergency Management & Homeland Security (MCOEMHS)	Drill	June 2017 to date	Supporting	MCOEMHS	These are monthly drills conducted by MCOEMHS to test the continuing use and capability of the Web EOC platform. Each month a different aspect of Web EOC is tested.



MDERS Training and Exercise Cache

QUICK FACTS

This project provides equipment to support training and exercises within the Maryland-National Capital Region (MD-NCR).

MDERS Budget:

Number	Item	Amount
1	24' Trailer	\$16,822.45
1	Traffic cones and additional supplies	\$927.55
1	Portable generator	\$750.00
2	Commercial grade pop-up canopies	\$1,000.00
1	Portable lighting	\$500.00
Total	UASI FY16	\$20,000.00

Capability:

Provide training and exercise equipment, and transportation thereof, to stakeholders to support MDERS training and exercise initiatives while minimizing logistical costs.

Outcomes:

- Provide easily stored and transported cache of training and exercise equipment.
- Provide logistical support for training and exercises to MDERS stakeholder agencies.
- Support MDERS T&E initiatives conducted with stakeholders from LE, Fire/EMS, Public Health, Emergency Management, and the hospitals in Montgomery and Prince George's Counties. Stakeholder exercises focus on developing and testing response capabilities to critical incidents to include a wide range of incidents. Operations-based exercises will be a major focus in the coming years, and this resource will help to support the execution of those initiatives.
- Provide a single source storage space for all exercise equipment. This process places the equipment in a secure, safe location, with supervision by MDERS staff.
- Economic savings from this model include inventory control of all supplies on a regular basis, single point logistics coordination with MDERS, and a regular maintenance plan.



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MDERS Training and Exercise Cache



The 24-foot trailer for the MDERS Training & Exercise Program is stored at secured facility. This provides the capability to transport all the required supplies to conduct an exercise in a single resource. Built on a walk out design, the ramp component allows personnel to safely move supplies to the assigned area. The resource cache allows personnel to establish a base area with shelters for protection, continuous electrical power to main communications, and a full set of administrative supplies to for exercise conduct, observation, and documentation by all participants.



The MDERS pop-up shelter system was designed to provide an easily transported, simple to assemble, and, most importantly, weather-secure working environment for operations in remote locations. The proven reliability of the design, material, and construction has consistently exceeded the MDERS stakeholder expectations in normal weather conditions. The shelters provide a secure space for exercise operations, including administration activities for staff, participants, and volunteers. Marked with the MDERS logo, the shelters brand the activity as a local emergency response event and provide a professional framework for the community.



The addition of portable generators provides power at any exercise site. The generator performance, combined with ease of use and simplified maintenance, were key features identified by MDERS stakeholders. Technical enhancements in this model result in more power and maximum output at lower RPMs, delivering stakeholders quiet, efficient portable power. With a lightweight, compact design, this versatile generator provides easy portability for training and exercise missions as the primary or backup power source.



Hospital Cache

QUICK FACTS

The hospital cache provides hemorrhage control supplies and mobile storage for all hospitals within the MD-NCR to support response to traumatic mass casualty incidents, including those caused by acts of violence.

Distribution:

- Washington Adventist Hospital
- Holy Cross Silver Spring Hospital
- Suburban Hospital
- Shady Grove Adventist Hospital
- Germantown Emergency Center
- Holy Cross Germantown Hospital
- Medstar Montgomery Hospital
- Laurel Regional Hospital
- Doctors Community Hospital
- Prince George's Medical Center
- Southern Maryland Medical Center
- Fort Washington Medical Center

MDERS Budget:

Number	Item	Amount
12	Rolling Case	\$10,908.00
1200	Rolls of hemostatic impregnated gauze	\$49,788.00
1200	Pressure dressings	\$9,396.00
1200	Tourniquets	\$28,158.00
Total	UASI 2016	\$98,250.00

Capability:

The equipment will provide the capability for hospital personnel in the MD-NCR to reduce loss of life, especially in those acute care facilities that do not focus on traumatic injury care and may not have a capacity of treatment supplies for these types of incidents.

All twelve MD-NCR acute care hospital facilities can provide life-saving hemorrhage control in a no-notice trauma event by deploying this rolling case, each containing (100) tourniquets, (100) rolls of hemostatic-impregnated gauze, and (100) pressure dressings.

This project provides massive hemorrhage control supplies and mobile storage for hospital facilities within the MD-NCR.

This capability will allow all facilities, especially non-trauma facilities, the initial capacity to support treatment of these types of injuries expected during a mass casualty event as a result of terrorism or acts of violence.

Outcomes:

- Provide the capability for hospital personnel to reduce the loss of life.
- Provide acute care facilities that do not focus on traumatic injury the supplies for such treatment.
- Provide mobile storage for supplies to support quick deployment.
- Provide supplies that are consistent with prehospital care application to maximize standardization throughout the continuum of care.



Hospital Cache



The H Bandage is a fast, effective compression dressing for many kinds of traumatic injuries packed in a smaller, more versatile package for use by law enforcement, first responders, and hospital personnel.



Each hospital cache has 100 Celox kits for rapid deployment. These bandages assist in bleeding control because they are specially treated with a blood clotting agent. The easy open package contains enough material for a single patient use. This item, in conjunction with the other supplies, establishes a best practice to control rapid hemorrhage, reduce blood loss, and decrease mortality.



The tourniquet is a lightweight open-loop system composed of a sturdy strap and aluminum windlass. As a true open-loop system, this tourniquet comes apart completely to place around a limb and does not need to be fully cinched down prior to engaging the windlass. By turning the windlass, the slack from a loosely applied tourniquet will uptake and fully tighten the tourniquet. It has two securing points to lock down the windlass after application: one that is adjustable and one with Velcro.



Each facility received the supplies in a ready-to-deploy case. Each case is designed in a modular compartment configuration that provides easy recognition for the user. The case is designed to be a multi-use item that provides the storage space for supplies and a portable platform to navigate in buildings. Configured with easy load lids, the devices provide fast unloading, requires minimal training to deliver the supplies, and is constructed of an easy clean material.



Emergency Responder Medical Cache

QUICK FACTS

The Emergency Response Medical Cache provides first responders in the Maryland-National Capital Region with CDC-recommended infectious disease personal protective equipment and medical countermeasures for treatment of chemical or biological agent exposure. This acquisition increases the overall capability by twenty-five percent. The initiative also funded an additional five mechanical CPR devices to serve as force-multipliers during a mass casualty event.

Distribution:

- Duodote nerve agent antidote kits
- Bioquell solution storage cabinets
- LUCAS Chest Compression System

MDERS Budget:

Number	Item	Amount
2,020	Duodote nerve agent antidote kits	\$97,515.14
2	Bioquell solution storage cabinets	\$2,497.36
5	LUCAS Chest Compression System	\$85,987.50
Total	UASI FY16	\$186,000.00

Capability:

The Maryland-National Capital Region emergency response partners will procure and operationalize first responder health and safety equipment and supplies to protect responders from chemical and biological threats to an established extent.

Outcomes:

- Provide a cache of nerve agent antidote kits for Prince George's and Montgomery Counties, for use in the treatment of patients exposed to chemical nerve agents, to better manage a mass casualty incident, including those stemming from chemical agent exposure, acts of violence, and other threats.
- Provide five mechanical cardiopulmonary resuscitation (CPR) devices that serve as force multipliers for first responders on the scene of a MCI.
- Provide two appropriately-rated cabinets for the safe and proper storage of products related to a previously-funded Bioquell disinfection units. The consumable solution associated with those devices (two deployed to each Prince George's and Montgomery Counties) have a longer shelf life in particular storage conditions. These cabinets will ensure the sustainment of this capability with fully potent consumables.

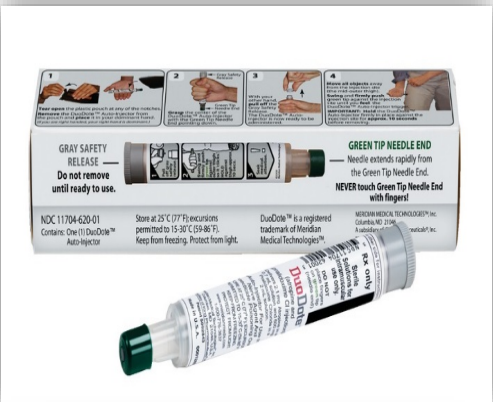


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Emergency Responder Medical Cache



The LUCAS Chest Compression System assists first responders and paramedics by providing effective and uninterrupted chest compressions on sudden cardiac arrest patients. With automated CPR, the fatigue, individual variations, or psychological factors are removed from CPR and there is no longer a need for shifting CPR providers every two minutes. Rescuers are freed up to focus on other critical life-saving tasks, such as ventilation, medication and defibrillation, which leads to an increased focus on cardiac arrest management.



Duodote is a single dual-chambered auto-injector containing two separate drug products, atropine and pralidoxime chloride. Duodote is intended for administration by first responders in the event of chemical nerve agent and insecticide poisoning. The auto-injector is a pre-filled, ready-to-use unit designed to treat symptoms caused by chemical nerve agents, and organophosphorous insecticides.



The Bioquell disinfection equipment requires specific storage capability for the cleaning agent. In cooperation with the Montgomery County Fire Rescue Service and Prince George's County Fire and EMS Department, a set of storage cabinets were purchased and placed at local facilities. This component provides safe and secure storage, climate control for self-life extension, and just-in-time deployment action that departments require.



FirstWatch Situational Awareness

QUICK FACTS

FirstWatch is a secure system that captures raw data and turns it into useful information in real time to help agencies improve situational awareness, operational performance, and clinical patient outcomes.

Funding Provides:

- Complete regional coverage
- Additional custom modules
- Customized application for various levels of user
- Expansion into Northern Virginia
- Enhanced capabilities for existing jurisdictions

Subgrantee:

- Prince George's Fire/Emergency Medical Service Department

MDERS Budget:

Number	Item	Amount
2	New FirstWatch jurisdictions in the NCR	\$259,646.00
5	Enhancement, annual service and maintenance for existing jurisdictions	\$118,084.00
Total	UASI FY16	\$378,000.00

Capability:

This project continues funding for the establishment of the FirstWatch situational awareness software that is currently in use in the MD-NCR. The focus of the funding is on the expansion of FirstWatch into fire departments in the District of Columbia, Alexandria, Arlington, Prince William, and Loudoun County, Virginia. A portion of the funding extended and maintained the program currently in use by the MD-NCR.

Outcomes:

- Real-time situational awareness of all EMS operations
- System performance metric monitoring.
- Triggers for critical events.
- Directions to Emergency Communications Center for system status management to maintain system standards, such as response time.
- Connection to multiple sources of data for aggregation.
- Hospital interface for patient transport status.
- Visual dashboards on multiple devices.





FirstWatch Situational Awareness

MDERS EMS agencies and healthcare facilities operate at or near capacity on a routine basis. The implementation of FirstWatch, which occurred in Prince George's County in 2013, provides real time situational awareness that enhances the ability of hospitals, emergency medical services, and public health to improve response to routine events and medical surge. FirstWatch provides the following:

- **A variety of data sources:**
 - Any information that is captured in a database (e.g., CAD, ProQA, ePCR, RMS) can be monitored and aggregated by FirstWatch. The process is automated.
- **Improved operational performance:**
 - FirstWatch monitors key performance indicators in real time, such as response times, scene times, and hospital drop-offs.
- **Improved clinical performance:**
 - FirstWatch provides automated, real-time feedback on adherence to patient care protocols, enabling more effective quality improvement programs.
- **Dashboards:**
 - Performance indicators are presented on dashboards so users can quickly and easily see the status of any dataset they wish to add on any device that connects to the internet.
- **Early warning utility:**
 - FirstWatch can be set to alert for early signs of a chemical, biological, radioactive, or nuclear attack (CBRNE), or for naturally-occurring epidemics or pandemics.
- **Sentinel event/situational awareness alerts:**
 - FirstWatch can be used to reduce workload and increase awareness by automating key notifications for sentinel or situational awareness events.
- **Customized alerting:**
 - When a FirstWatch trigger is activated, the user determines to whom and how an alert will automatically be sent.
- **Pre-set or customized triggers:**
 - Users can use pre-set triggers to provide alerts for common types of incidents and can also have customized triggers for their specific needs.



Incident Drill-down			
Incident Details			
fwCust_ID	11 00	Time_FirstCallTakingKeystroke	2015/07/14 04:11
ID	11000000	Time_CallEnteredQueue	2015/07/14 04:11
FWTimeStamp	2015/07/14 04:11	Time_CallTakingComplete	2015/07/14 04:11
Response_Date	2015/07/14 04:11	Time_CallClosed	2015/07/14 04:11
Master_Incident_Number	11000000	Time_First_Unit_Assigned	2015/07/14 04:11
Agency_Type	11000000	Time_First_Unit_Arrived	2015/07/14 04:11
Jurisdiction	Xxx Xxxxx	Cancel_Reason	
Division	11000000	Call_Disposition	1 CALL COMPLETED
Response_Area	11000000	EMD_Used	1
Problem	11000000	CIS_Used	0
Priority_Number	1	Determinant	11000000
Location_Name	11000000	ProQA_CaseNumber	11000000
Address	#### Xxxxxxx Xx	Call_Is_Active	0
Apartment		CreatedbyPrescheduleModule	
City	XXX XXXXX	Caller_Type	
State	00	Location_Type	
Postal_Code	####	Priority_Description	Lowest Priority
Map_Info	####X#	ClockStartTime	2015/07/14 04:11



Quick Response Police Vehicles – Montgomery and Prince George’s County

QUICK FACTS

This project provides quick response vehicles to SWAT officers. The project enhances the capability to quickly respond to terrorism scenes/threats with all the gear, equipment, and weapons that SWAT officers need to respond to hostile threats (e.g., firearms, ammunition, breaching equipment, explosive breaching, chemical munitions, CBRNE detection/response personal protective equipment, etc.). The vehicles are used by SWAT officers and SWAT medics, thereby providing law enforcement response and emergency medical care to officers and the public in an expeditious fashion.

MDERS Budget:

Number	Item	Amount
6	SWAT Quick Response Vehicles	\$514,067.36
Total	UASI FY16	\$514,067.36

Capability:

The vehicles provide a quick response capability for SWAT officers to arrive to the scene of an event, equipped with the necessary tools to complete critical mission tasks required at a complex coordinated attack or terrorism incident.

Outcomes:

- The Chevy Suburban provides the police with a heavy-duty vehicle platform for the quick and safe response to CCA, terrorist events, or other hostile incidents.
- The interior configuration allows for multiple mission actions including seated personnel, a quick conversion option to carry a littered patient, and fold down seats to load additional equipment.
- Storage compartments in the vehicle allow efficient gear arrangement, rapid deployment of personnel protective gear, and safe access.
- Vehicle configuration and enhanced communications suite allows for on-scene incident command platform for special operations law enforcement officers.
- Vehicles are equipped with advanced tactical medical equipment to allow for rapid treatment of patients in austere, hostile environments where traditional EMS is not accessible.



Quick Response Police Vehicles – Montgomery and Prince George's County



This capability provides six Chevy Suburban Sport Utility Vehicles (SUVs) to the Montgomery County Police Department (2) and the Prince George's County Police Department (4). These vehicles are designed as quick response vehicles for two SWAT officers. Each vehicle is equipped with heavy-duty slide out trays, secure storage boxes, and shelving.



The storage provides the ability to store firearms, ammunition, breaching equipment, chemical munitions, CBRNE detection/response PPE, and medical supplies needed to respond to hostile incidents.



The inclusion of vaults in certain vehicles allows for secure storage of weapons, ammunition, medications, and other sensitive materials. Access to the vaults is limited to authorized SWAT officers.



Law Enforcement Special Operations Equipment

QUICK FACTS

This project provides a quick response capability for MD-NCR SWAT officers to include thermal imaging and night vision capabilities.

MDERS Budget:

Number	Item	Amount
15	Thermal imaging devices	\$34,500.00
8	Night vision goggles	\$71,224.00
205	Mechanical breaching kits	\$107,227.30
131	Hand breaching tools	\$41,537.48
40	Ballistic shields; Level IIIA protection for SWAT operators	\$50,828.00
7	Breaching doors and supplies	\$45,915.86
Total	UASI FY16	\$351,232.64

Capability:

The Maryland-National Capital Region emergency response partners can expeditiously, effectively, and efficiently respond to and mitigate an active violence event to minimize harm and impact to victims.

Outcomes:

- Night vision goggles allow tactical medics to directly support SWAT officers in response to low-light, high-threat incidents.
- Thermal imagers give SWAT officers a tactical advantage to work as a single member or combine with other teams to identify threats hiding behind various barriers, in remote locations, or in low-visibility environments.
- Collapsible tools facilitate ease of storage, transport, and deployment. When fully extended, the tools provide the same leverage of force as non-collapsible versions.
- These breaching kits allow patrol and SWAT officers to maintain breaching equipment easily accessible during critical incidents without hindering their ability to utilize firearms. These tools are lightweight, small in overall size, and of high quality and strength.
- The breaching door simulator provides teams with the ability to practice simulated entry techniques. This provides law enforcement team members with the necessary repetitions and situations to practice tool placement skills, coordination of activities to gain entry, and build confidence to execute mission critical tasks.



Law Enforcement Special Operations Equipment



Night vision goggles enable tactical medics to support SWAT officers in low-light environments, lessening the potential delay in the provision of medical care in the event of an injury. The equipment is a standard component of the police tactical team that allows a strategic advantage in low-light conditions, increased situational awareness, and interoperability between law enforcement teams.



Ballistic shields are used by law enforcement officers, especially members of tactical entry or special weapons and tactics (SWAT) teams. They are invaluable in situations where officers have little to no cover and provide the additional ballistic protection needed in high-risk circumstances where officers are required to approach potentially armed individuals.



Thermal imagers enable SWAT, K9, and emergency services personnel to identify suspects, victims, and bystanders hidden behind a variety of barriers during response to hostile events and other types of incidents.



The breaching door assembly and supplies allow the police tactical teams to design a standard method of instruction to officers in forcing entry in various structures. The supplies allow for the situations and repetitions that officers require to gain the knowledge and skills to use the correct tools by executing tactics in a controlled environment. The use of breaching doors for training purposes allows the Special Operations Divisions to practice various entry techniques in controlled training environments.



Public Health Emergency Response & Incident Command System Equipment

QUICK FACTS

This project provides the Public Health Emergency Preparedness Programs in the MD-NCR the capability to build incident command resources and move to a mobile platform.

MDERS Budget:

Number	Item	Amount
2	Vehicles	\$83,985.34
2	Radios	\$17,016.12
2	Laptops	\$23,220.00
2	Incident command kits	\$6,451.16
Total	UASI FY 16	\$268,925.00

Capability:

This project is a continuation of FY15 to develop the MD-NCR ability to respond to and mitigate several diverse types of incidents, including medical countermeasure distribution and mass fatality management. Purchase of two equipped vehicles will enable rapid response by Public Health personnel. Radios, computers, and other items enable responders to establish incident command in the field. This assists in the region's need to be able to maintain and continue to bolster preparedness efforts for medical countermeasure distribution and other critical public health emergency response capabilities.

Outcome:

- The rapid response vehicle places Public Health personnel at the frontline of the emergency incident. Packaged in a heavy-duty platform, personnel arrive with the tools, resources, and weather-protected space to integrate into the Incident Command System (ICS).
- The MD-NCR emergency response partners will establish and utilize the ICS to coordinate response operations for all-hazards events, including large scale, interagency, interdisciplinary responses.
- Coordinating select Public Health response functions across multiple entities and partners.
- Provide a mechanism for incident command from a central point unique to Public Health with static and mobile tools.



Public Health Emergency Response & Incident Command System Equipment



The rapid response platform allows the vehicle assignment to a single point within the county or designated individual for on-call response. Built on a heavy-duty frame, the vehicle can carry four personnel, the equipment required to support the mission, and the ability to tow additional supplies, as needed.



The Dennis Avenue Public Health Building hosts the Preparedness Emergency Response Command Center. Incident Command Capability was a noted gap in the previous exercise activities and events in Montgomery County. With these supplies, combined with training, exercise and evaluation, Public Health is demonstrating incremental resources allocated to improve command and control.





NCR
MARYLAND

MDERS Shared Resources

QUICK FACTS

MDERS sought feedback from stakeholders on items that could be used as shared resources across all disciplines. This feedback led to the purchase of high-end tools to enhance the capacity of training and planning.

By acquiring resources than can be shared across all stakeholders, the cost of these critical, but not often used, tools is minimized. Centralizing the location of these tools allows for personnel who are adept at the usage and routine maintenance.

MDERS Budget:

Number	Item	Amount
1	Wide format laminator	\$10,589.00
9	Simulated training weapons	\$4,194.00
100,000	Simulated training ammunition rounds	\$46,671.93
5	Interactive Whiteboards	\$25,457.00
Total	UASI FY 16	\$86,911.93

Capability:

With the expansion of the Tabletop in a Box training program, the need for large maps was solved by the purchase of the plotter FY14. Before, laminating these large items were done by outside vendors.



The purchase of the GBC Spire 44T laminator allow MDERS staff to produce durable maps, signage, and other materials in-house. This resource is available to MDERS stakeholders for training events, planning, exercises, and other related

The laminator is a professional grade item that is housed at MDERS offices in College Park, MD.

Interactive Whiteboard: An interactive whiteboard (IWB) is a large interactive display in the form factor of a whiteboard. It can either be a standalone touchscreen computer used independently to perform tasks and operations, or a connectable apparatus used as a touchpad to control computers from a projector.



Maryland National Capital Region Emergency Response System

Number	Item	Amount
1	Laminator	\$10,589.00
9	Sim Guns	\$4,194.00
100,000	Simunitions UTM Rounds	\$46,671.93
5	IAWR	\$25,457.00



MDERS Shared Resources

Uses of interactive whiteboards (IWB) by MDERS stakeholders include:

- ICS/EOC Operations – Maps, large-scale graphics, and other items.
- Real-time tracking of incidents through ICS software.
- Running software that is loaded onto the connected computer, such as a web browsers or other software used in the classroom.
- Capturing and saving notes written on a whiteboard to the connected computer.
- Capturing notes written on a graphics tablet connected to the whiteboard.
- Controlling the computer from the whiteboard using click and drag and markup, which annotates a program or presentation.



During the FY18 Budget discussions, members of the Steering Committee expressed a desire to explore the uses of interactive whiteboard technology, specifically the Google Jamboard, Cisco Spark, Samsung Flip, and Microsoft Surface Hub. In order to kick off the pilot project, MDERS purchased three systems to test the technologies at various locations, along with two mobile devices that can be used at meetings with stakeholders and for specific events. The test will include the demonstration of the Google Jamboard, Samsung Flip, and the Cisco Spark.

Maryland State Police and the Governor's Office of Homeland Security have taken the lead on testing the

Google Jamboard technologies. They will be featured at a series of meetings highlighting technology innovators. The pilot stakeholders will rate the technology on the following factors:

- Ease of use
- Operability with current systems
- Scalability
- Training uses
- Conferences abilities
- Teamwork and Collaboration aspects



MDERS Shared Resources



SIMUNITIONS: Known as dummy rounds or drill rounds, Simunitions rounds are completely inert, meaning they contain no primer, propellant, or explosive charge. The rounds assist departments to check weapon functions and operate realistically in training scenarios. Stakeholders in the MD-NCR use Simunitions at academies and in specialized training where officers get hands on experience in various tactical situations.

SIM GUNS: Sim Guns are fully functioning training tools that use marking or non-marking rounds. Sim Guns are used by law enforcement and civilians for training purposes. MDERS purchased nine (9) GLOCK 17T (9mm) for Montgomery County Police Academy for training purposes in FY16.



Applications for Sim Guns:

- Basic firearms familiarization and skill development
- Tactical scenarios
- Individual and team situations
- Counterterrorism
- Close-quarter battle (CQB)



Outcomes for training with Sim Guns and Simunitions:

- Officers have the opportunity to practice with same type weapons that are used in the field, with realistic representation of accuracy and effect.

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Hospital Surge Equipment & Public Access Trauma Care

QUICK FACTS

The recent increase in terror attacks and active violence incidents illustrate the likelihood of a sudden surge of traumatic patients, for which acute care hospital facilities are not prepared. The Hospital Surge focuses on providing the twelve NCR-MD hospitals with equipment to enhance preparedness for this type of surge, regardless of the cause.

Understanding that hospitals are a key part of the community where many people congregate, this project also equipped each with Public Access Trauma Kits. These kits, meant to be used by providers or the general public, provide immediate access to life-saving tools and supplies in the event of a traumatic injury, such as an act of violence. These kits are in non-clinical areas of the facilities, where medical supplies are not always readily available.

MDERS Budget:

Number	Item	Amount
48	Bleeding control kits	\$42,442.80
240	Supine expansion equipment	\$73,307.20
Total	UASI FY16	\$115,750.00

Capability:

The Maryland-National Capital Region emergency response partners are able to triage, treat, and transport to definitive treatment victims of a mass casualty incident in a coordinated, interagency and interdisciplinary response while maintaining the system's ability for continuity of operations.

Outcomes:

- Maximize hospital throughput and surge capacity to effectively manage an influx of patients.
- Place collapsible cots within each facility, providing the capability to expand bed capacity for a no-notice surge event.
- Provide mobile storage racks for quick deployment of the cots wherever hospital leadership determines appropriate.
- The placement within the 12 MD-NCR hospitals provides coordination and standardization of equipment and materials that are used across facilities.
- Place trauma and bleeding control kits in non-clinical areas of hospital facilities to allow for immediate treatment of life-threatening traumatic injuries by providers and the public alike.



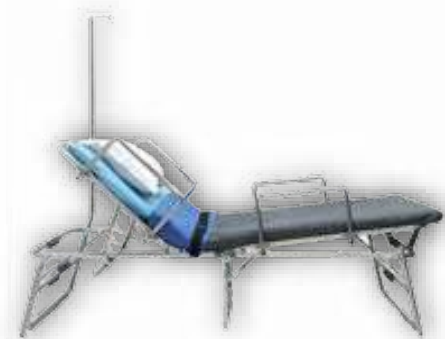
Hospital Surge Equipment & Public Access Trauma Care



The Public Access Bleeding Control (PABC) Stations provide bystanders, staff, and visitors with quick and easy access to essential medical equipment to stop life-threatening bleeding in public buildings and populated public areas. Designed to be mounted on a wall at a designated location or to be co-located with Automatic External Defibrillators (AEDs), the Public Access Bleeding Control Station provides publicly accessible medical supplies to control major bleeding.



The emergency cot storage unit provides the capability to safely and securely store 20 cots in a single location. This system provides for just in time deployment for the no-notice medical surge event. Equipped with heavy duty rolling wheels, the unit requires only a single person to operate and deliver supplies to the impacted area. With 20 cots contained in the single storage unit facilities can expand operations in any location within minutes. The easy to use intuitive design provides the staff with ease of operation, reduced training time for actions, and a standard method for application.



The surge capacity aluminum folding frame beds feature reinforced decking with hook-and-loop springs, four heavy-duty leg locks, spun ends to eliminate loss (caps) and cutting hazards and dirt/bacteria traps. The foot elevator locks in place in both elevated and resting positions (Trendelenburg). The cots also feature a head elevator safety restraint cable, patient restraint strap, and 2" convoluted high density foam mattress with stay-on tabs, and safety and instructional labeling.



NCR
MARYLAND

Tactical Medical Equipment & Ballistic Protection Prince George's County Fire & EMS Department

QUICK FACTS

These funds were used to further the response capabilities related to high threat environments, such as complex coordinated attacks and other acts of violence. The equipment protects conventional providers and Special Operations Medics with ballistic protection.

MDERS Budget:

Number	Item	Amount
8	Ballistic helmet - Viper P4 Helmet	\$6,974.08
8	Ballistic helmet - Caiman Bump Helmet	\$3,058.80
220	Ballistic body armor	\$122,760.00
220	Litter complete kit	\$19,261.00
25	Litter refill	\$1,238.89
220	Helmet light	\$22,471.35
220	Medical supplies for attachment to vests	\$15,701.88
220	Ballistic vest plate carrier - velocity systems	\$139,430.00
Total	UASI FY16	\$330,896.00

Capability:

This project addresses the high likelihood of Complex Coordinated Attacks in the MD-NCR, as well as other acts of violence, by providing fire and rescue personnel with the necessary equipment to complete tactical triage and provide medical care to victims. The project will increase the capabilities by allowing fire and rescue personnel to treat these unique injury patterns and enter scenes that may have some threat of violence. This request further closes the gaps identified in the 2011 Fire and EMS Chiefs and Police Chiefs LE/EMS Guidelines.

Outcome:

- The MD-NCR emergency response partners can expeditiously, effectively, and efficiently respond to and mitigate an active violence event to minimize harm and impact to victims.
- The ballistic protective equipment provides a standard level of protection for the fire and rescue personnel to expeditiously and effectively evacuate casualties.
- This capability allows for patient care to be initiated at law enforcement first contact and provide smooth transition of patient care to Emergency Medical Services (EMS).
- The equipment is available to conventional first responders to protect them in these environments.
- Additional specialized equipment is provided to tactical medics who operate in austere environments routinely.



Tactical Medical Equipment & Ballistic Protection Prince George's County Fire & EMS Department



The medical supplies attached to the ballistic protection allow first responders to quickly and efficiently treat life threatening injuries at the point of injury. Each vest includes trauma shears to quickly remove clothing or material to allow the provider access to injured body areas. Stocked with wound packing materials and hemostatic bandages, these supplies are best practices in medical practice to stop massive hemorrhage. Additional airway management tools are included to occlude chest wounds, apply life saving chest decompression techniques and maintain a patient's airway in an open position.

The ballistic helmet is part of the protective envelope deployed in high threat or active violence incidents. This helmet provides protection from bullets and explosive projectiles. Built with an ergonomic frame, the helmet provides comfort for the provider, full range of motion to complete tasks and ventilated design for comfort. Clip frame technology allows for the addition of head lamps, night vision or radio devices.



Developed for fire and rescue personnel working in the direct and indirect threat areas of violent incidents, the Rescue Task Force Vest Kit provides rescuers with ballistic protection. This equipment, combined with essential medical supplies, provide immediate point-of-wounding care to injured patients in accordance to Tactical Emergency Casualty Care (TECC) guidelines.



Tactical Medical Equipment & Ballistic Protection Montgomery County Fire and Rescue Service

QUICK FACTS

These funds were used to further the response capabilities related to high threat environments, such as complex coordinated attacks and other acts of violence. The equipment protects conventional providers and Special Operations Medics with ballistic protection. It also provides enhanced medical equipment on all fire/rescue apparatus.

MDERS Budget:

Number	Item	Amount
340	Tactical medical bags	\$114,068.30
66	5.11 Push Pack Bag	\$3,127.74
400	Quick litter	\$6,316.00
4	Israeli bandage	\$35.80
400	Labels for trauma bags	\$1,400.00
90	Cricothyrotomy kits	\$10,799.10
35	Protective bags ballistic protection ensembles	\$4,189.15
15	Protective bags for tactical medical personnel	\$1,241.85
10	Ballistic protection ensemble for tactical medical personnel	\$49,268.30
84	Ballistic protection ensemble for general personnel	\$100,463.76
Total	UASI FY16	\$290,910.00

Capability:

This project addresses the high likelihood of Complex Coordinated Attacks in the MD-NCR, as well as other acts of violence, by providing fire and rescue personnel with the necessary equipment to complete tactical triage and provide medical care to victims. The project will increase the capabilities by allowing fire and rescue personnel to treat these unique injury patterns and enter scenes that may have some threat of violence. This request further closes the gaps identified in the 2011 Fire and EMS Chiefs and Police Chiefs LE/EMS Guidelines

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- Additional specialized equipment is provided to tactical medics who operate in austere environments routinely.



Tactical Medical Equipment & Ballistic Protection Montgomery County Fire and Rescue Service



The trauma bag provides the medical equipment (tourniquet, hemostatic pressure dressing, trauma shears, splint and wound pack) to treat victims of traumatic events, including acts of violence. Each bag contains enough supplies to treat two critically injured patients. With a messenger type standard design, the pack provides a hands-free system to locate and retrieve supplies. Equipped with easy access front pouches, the bag carries the required triage tags and medical equipment for point of injury care and a patient transfer litter for rapid extraction.



The Plate Carrier Vest provides protection to fire rescue personnel. Each vest is compliant with the National Institute of Justice rating system. These vests are easy fit with overhead application, equipped with adjustable Velcro straps, and quick release buckles. With a hands-free system design, the vest integrates with the trauma bag, and other equipment.

The vests are accompanied by ballistic plates to provide enhanced protection against a variety of projectiles.

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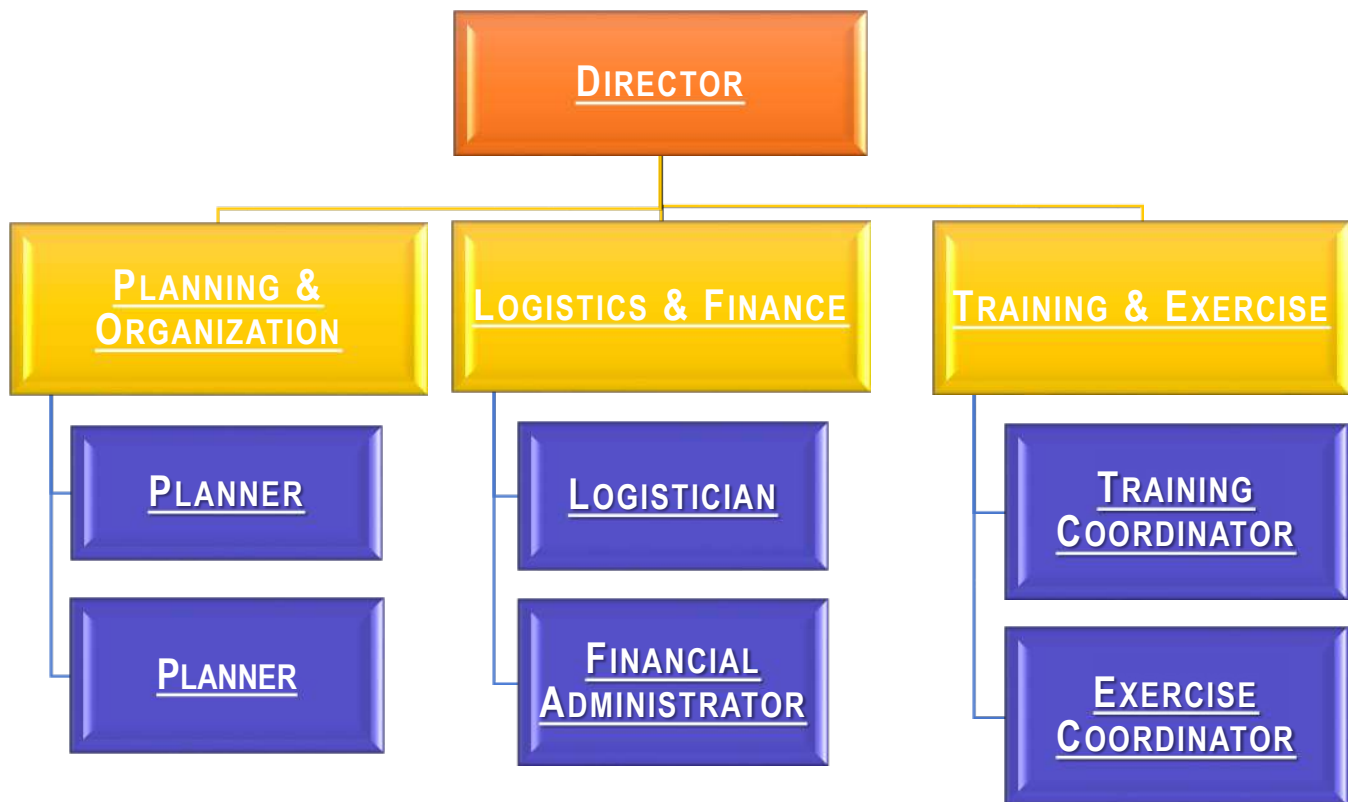
ACRONYMS & ABBREVIATIONS

Acronym	Definition
AARs	After Action Reports
CAD	Computer Aided Dispatch
CBRNE	Chemical, Biological, Radiological, Nuclear, Explosive
CCA	Complex Coordinated Attack
CDC	Center for Disease Control
C-TECC	Committee for Tactical Emergency Casualty Care
DFAN	Disabilities, Access and Functional Needs workgroup
DHHS	Department of Health and Human Services
DHMH	Department of Health and Mental Hygiene
EM	Emergency Management
EMS	Emergency Medical Services
EOC	Emergency Operations Center
ePCR	Electronic Patient Care Report
FAA	Federal Aviation Administration
FEMA	Federal Emergency Management Agency
HSEEP	Homeland Security Exercise Evaluation Program
IAP	Incident Action Plan
ICS	Incident Command System
LE	Law Enforcement
MCI	Mass Casualty Incident
MCPD	Montgomery County Police Department
MDOD	Maryland Department of Disabilities
MEMA	Maryland Emergency Management Agency
MCFRS	Montgomery County Fire & Rescue Service
MCOEMHS	Montgomery County Office of Emergency Management Homeland Security
MDERS	Maryland National Capital Emergency Response System

Fiscal Year 2016 Annual Report

MD-NCR	Maryland National Capital Region (Montgomery & Prince George's County)
MIEMSS	Maryland Institute for Emergency Medical Services Systems
MSP	Maryland State Police
MWCOG	Metropolitan Washington Council of Governments
NCR	National Capital Region
OEM	Office of Emergency Management
PH	Public Health
PGFD	Prince George's County Fire/EMS Department
PGPD	Prince George's County Police Department
POETEE	Planning, Organization, Equipping, Training, Exercise, Evaluation
ProQA	Quality Assurance
RESF	Regional Emergency Support Function
RMS	Risk Management System
SAA	State Administrative Agent
SOD	Special Operations Division
SMART	Specific, Measurable, Achievable, Realistic, Time phased
SWAT	Special Weapons & Tactics Team
SWOT	Strengths, Weaknesses, Opportunities, Threats
T&E	Training & Exercise
TECC	Tactical Emergency Casualty Care
THIRA	Threat Hazard Identification and Risk Analysis
TTB	Table–Top-in-a-Box
UAS	Unmanned Aerial System
sUAS	Small Unmanned Aerial System
UASI	Urban Area Security Initiative

ORGANIZATIONAL CHART



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FISCAL YEAR 2016 EXPENDITURES

Category	Expense
Administrative	
Meeting Support	\$5,313.08
Communications	\$22,499.13
Computer Equipment & Peripherals	\$10,770.61
Management & Administrative Costs (MIEMSS)	\$4,472.37
Office & Storage Supplies	\$8,273.41
Office Equipment Rental (Copier)	\$3,159.51
Office Furniture Rent	\$16,666.68
Office Space Cleaning	\$3,415.00
Office Space Rent	\$34,808.04
Payroll	\$1,096,150.59
Postage	\$50.25
Printing	\$1,124.08
Software	\$30,097.58
Staff, Local Travel (Mileage, Parking)	\$1,135.01
Subscriptions (EBSCO)	\$6,487.77
Website Maintenance	\$10,920.00
Total Administrative	\$1,255,343.11
Projects	
Emergency Surge Capacity	\$462,798.42
Emergency Responder Medical Cache	\$183,975.34
FirstWatch Situational Awareness	\$378,000.00
Hospital Cache	\$98,250.00
Hospital Surge Equipment	\$116,497.20
Infectious Disease Protection Cache	\$183,975.34
Large Scale Laminator	\$10,589.00
MCI / Tactical Bags	\$290,280.80
Interactive White Boards	\$25,457.00
Tactical Medical Equipment and Ballistic Protection for MCFRS	\$290,250.80
Tactical Medical Equipment and Ballistic Protection for PGFD	\$327,366.34
Tabletop in a Box Training Supplies	\$5,491.35
TECC Equipment and Training Supplies	\$119,797.85
Sim Guns & Simunitions	\$50,865.93
SWAT Vehicles for MCPD	\$209,255.70
SWAT Vehicles and tactical equipment for PGPD	\$651,781.04
Training & Exercise	\$331,398.84
Training & Exercise Cache (Trailer)	\$20,000.00
Training Supplies	\$77,014.01
Symposium (Printing, Speaker Honoraria, Speaker Travel, Venue, Catering)	\$47,175.14
Total Projects	\$3,880,220.10
Total UASI Funds FY16	\$5,135,563.21



The Maryland-National Capital Region Emergency Response System is supported by a National Capital Region Urban Area Security Initiative (UASI) grant from the Federal Emergency Management Agency's Grant Programs Directorate, U.S. Department of Homeland Security (DHS). The program is administered by the Maryland Institute for Emergency Medical Services Systems (MIEMSS).



FEMA

