# Fiscal Year 2018 Annual Report

## Maryland-National Capital Region Emergency Response System


**June 1, 2019 to May 31, 2020**

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# PROGRAM OVERVIEW


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 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.

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.

# 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 2018 has been another highly 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, Organizing, Equipping, Training, Exercising, and Evaluating. The approach has emphasized comprehensive planning throughout the project life-cycle in order to most effectively and efficiently achieve target response capabilities and capacities throughout the Region. Fiscal Year 2018 was the fourth complete budget cycle during which this approach was applied consistently for the entirety of the period. The results of the approach have offered extensive solutions to complicated and interdependent capabilities. It has also supported strategic, multi-year approaches to build complex and expanding 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 thorough system of developing capabilities and supporting stakeholders to 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 2018. This has allowed the program to accomplish several initiatives towards building capabilities, including provision of the following:

- High fidelity patient simulators for tactical medical providers to train on traumatic injuries in high threat environments.
- 1,080 Public Access Trauma Care cabinets for schools and public buildings to allow the public to perform life-saving interventions prior to the arrival of emergency responders. These kits are now in every Montgomery County Public School.
- Tourniquets, compression bandages, and other first aid supplies, along with appropriate training, to all Montgomery County Public Schools security guards to provide immediate care within the school buildings.

- Wireless vital sign monitors for Medical Ambulance Buses to allow for monitoring and treating multiple patients simultaneously.
- Mobile software to allow for accurate medication calculation for field providers, especially during biological or chemical exposure following a terrorist event.
- Additional equipment and software for Command Competency Labs for Prince George's Fire and EMS and Montgomery County Fire and Rescue to train, develop, and test current and aspiring incident commanders.
- The FirstWatch situational awareness platform to four more Northern Virginia jurisdictions, increasing regional collaboration and coordination on routine and large-scale events.
- External benches for helicopter operations of the Prince George's Police Department.
- Throw cameras, robots, night vision scopes, and other specialized tactical equipment for special operations personnel in both county police departments.
- Vehicle for law enforcement tactical operations for Montgomery County Police.
- Multiple small unmanned aerial systems for Montgomery County Police, Fire/Rescue, and Emergency Management, as well as Prince George's County Police.
- Two Tactical Emergency Medical Services (TEMS) vehicles for specialized providers within the Prince George's County Fire and EMS Department, as well as a TEMS vehicle for Montgomery County Police.
- Advanced cardiac monitoring and treatment equipment for Montgomery County Police TEMS personnel.
- A multi-purpose van to deploy SWAT and other special operations personnel from the Montgomery County Police Department.
- Emergency response vehicles, equipment, personal protective equipment, and field support kits for Montgomery County Office of Emergency Management and Homeland Security and Prince George's County Office of Emergency Management.
- Two full-time Medical Resource Officers to provide training and organizational support for volunteers serving public health missions.
- A full-time Disability and Access Functional Needs Coordinator for the Maryland-National Capital Region and beyond.
- 37 specialty training courses to response personnel, including travel to many world-renowned programs and conferences.
- 15 discussion and functional exercises to evaluate the plans and operational readiness of response capabilities.
- A multi-part leadership seminar series for regional emergency response officials.

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

During the execution of FY18 projects and programs, the Maryland-National Capital Region, as with the rest of the world, faced the unexpected and unprecedented challenges associated with the novel coronavirus pandemic. The change in demand across all public safety agencies disrupted routine operations. Nonetheless, with cooperation between stakeholders, Maryland ERS staff, and the DC Homeland Security and Emergency Management Agency's Grant Division, all planned projects were completed as planned.

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 2019 include support staff, the training/exercise program, expansion and refinement of Command Competency Labs for fire/rescue, health coordinators for public health, expansion of unmanned aerials systems, additional public access trauma care kits, decontamination for emergency personnel, emergency medical services surge demand enhancement, SWAT and tactical medical response vehicles, hospital trauma care expansion, mass casualty incident response support, continued growth of FirstWatch in the National Capital Region, and a variety of specialized 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 of interjurisdictional 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 also thank the Maryland Institute for Emergency Medical Services Systems (MIEMSS). The agency has administered the financial, personnel, and procurement aspects of the Maryland Emergency Response System 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.

Finally, thank you to the representatives of the stakeholder agencies who serve on the Steering Committee for 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.

Sincerely,

Luke J. Hodgson
Director
Maryland-National Capital Region Emergency Response System

# 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.


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, and equipment acquisition.
Fire/EMS
Law Enforcement
Public Health
Hospitals
Emergency Management
EMERGENCY RESPONSE SYSTEM
NCR
MARYLAND
Fire/EMS
Law Enforcement
Public Health
Hospitals
Emergency Management
Steering Committee
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.
Shared values
• Multi-jurisdictional emergency response community
• Communicate, coordinate, and collaborate for interoperability
• Utilize the capability development planning process to identify gaps
• Allocate resources to meet local and regional emergency response needs
• Validate capabilities through training and exercises
Maryland ERS is a federally-funded grant program administered by the Maryland Institute for Emergency Medical Services Systems (MIEMSS).

## METHOD USED FOR CAPABILITY DEVELOPMENT

MDERS uses the POETEE process for developing response capabilities. 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 analyses 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) work group and the Maryland Department of Disabilities (MDOD) on developing tools for use in all planning efforts.

In addition to these work groups, 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 Work groups, Emergency Support Functions, and the Advisory Council.

MDERS staff 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 a critical aspect 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 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 a major portion of the capability building cycle, and contributes to knowledge, skills, and abilities across the homeland security workforce. The program 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, using a building block approach as depicted to the right. The three primary components of the HSEEP project management process include Design and Development, Conduct, and Evaluations.



***Design and Development:*** Identify exercise objectives, design scenario, and design evaluation process.

***Conduct:*** Execute 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.

***Improvement Planning:*** 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. Training and Exercise Program personnel also provide support to stakeholders in planning, conducting, and evaluating their agency's internal training and exercise initiatives.

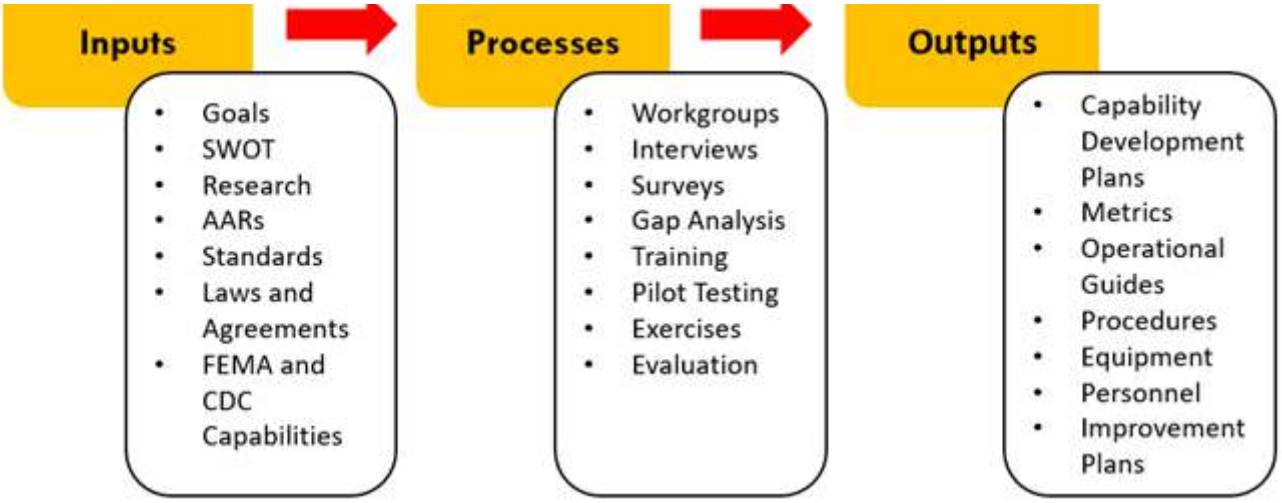
# FY 2018 CAPABILITY DEVELOPMENT

The capabilities described in this report were developed based upon goals established by the Steering Committee, and defined in the MDERS Strategic Plan. The following are the strategic goals of the program for FY18, as determined by the Steering Committee.

- 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.
- The Maryland-National Capital Region emergency response partners can triage, treat, and transport to definitive care victims of a mass casualty incident in a coordinated, inter-agency, and interdisciplinary response while maintaining the system's ability for continuity of operations.
- 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, inter-agency, interdisciplinary responses.
- The Maryland-National Capital Region emergency response partners will procure and operationalize first responder health and safety tools and equipment to protect responders from chemical, biological, and ballistic threats to an established extent.
- The Maryland-National Capital Region emergency response partners will effectively track, deploy, and ensure stakeholder access to regional assets during mitigation of an incident.
- 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 snapshot of that development process.



This report contains summaries of capability development that occurred through MDERS in FY18 for the following capabilities:

- Tactical Emergency Casualty Care (Montgomery County Police)
- Medical Resource Officer (Montgomery County)
- Emergency Management Response Capability (Montgomery County)
- Small Unmanned Aerial System (sUAS Montgomery County)
- Incident Command Support (Montgomery County)
- Tactical Equipment for Law Enforcement (Montgomery County)
- Small Unmanned Aerial System (sUAS Prince George's County)
- Medical Resource Officer (Prince George's County)
- FirstWatch System Monitoring
- Tactical Equipment for Law Enforcement (Prince George's County)
- Mass Casualty Incident Response Support (Prince George's County)
- Tactical Emergency Casualty Care (Prince George's County)
- Training and Exercise Program
- Public Access Trauma Care
- Disabilities, Access, and Functional Needs Coordinator

# Training and Exercise Program

## QUICK FACTS

***Projects:***

- 1 Leadership Seminar
- 15 Homeland Security Exercise & Evaluation Program (HSEEP) discussion-based and operational exercises.
- 34 sponsored training events.

***Some adjustments to the original Training and Exercise Plan were necessary to account for canceled or postponed courses due to COVID-19 pandemic conditions.***

***MDERS Budget:*** This budget does not consider personnel costs.

| Quantity | Item | Amount |
|---|---|---|
| 1 | Leadership Seminar | $6,507.75 |
| 37 | Training & travel expenses | $261,614.00 |
| 30 | Training supplies | $51,831.61 |
| 1 | Management & Administration | $8,075.36 |
| 1 | Communication expenses | $971.28 |
| Total | UASI FY18 | $329,000.00 |

**Capability:**

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

**Outcomes:**

- Response leaders provided lessons learned from multidisciplinary,multi-jurisdictional responses
- MDERS staff designed, developed, and delivered 15 Tabletop-in-a-Box (TTBX) workshops for Fire/EMS, law enforcement, hospitals, and public health.
- Designed, developed, and delivered three Tabletop-in-a-Box (TTBX) workshops for the Rockville City Police Department that serve as a basis for Incident Command System capability implementation.
- Designed, developed, and deployed 517 job aids, slick sheets, and support materials for discipline-specific training projects.
- Delivered 19 specialty training courses and conferences to emergency response personnel in the Maryland-National Capital Region.

# Training Program

The Training & Exercise Program offers several 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 brief overview of training delivered for each goal, the disciplines that participated, and the location of the training.

| Target Capability | Disciplines | Total Training / Conferences | Local Training | Travel Training |
|---|---|---|---|---|
| ***Response to Active Violent Incidents*** | ***Hospitals, EM*** | ***6*** | ***Y*** | |
| ***Mass Casualty Medical Surge*** | ***LE, EMS*** | ***5*** | ***Y*** | ***Y*** |
| ***Command and Control of all Hazards Incidents*** | ***Hospitals, PH,*** | ***3*** | ***Y*** | |
| ***Responder Health and Safety*** | ***PH*** | ***1*** | | |
| ***Resource Management*** | ***LE*** | ***1*** | | ***Y*** |
| ***Information Sharing and Situational Awareness*** | ***LE*** | ***2*** | | ***Y*** |
| ***Development of Emergency response Staff and stakeholders*** | ***All*** | ***3*** | ***Y*** | |
| | | ***21*** | | |
| | ***Totals*** | | | |

Disciplines abbreviated as follows: Emergency Management (EM), Law Enforcement (LE), Public Health (PH), Fire/EMS (EMS), Hospital (Hosp).

Personnel from local fire/EMS departments are seen participating in a tabletop drill. This program is one of the regional training opportunities that links fire/EMS departments in training. Formulation of interdepartmental and interjurisdictional 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.

The following is a complete list of trainings provided and supported by the Maryland-National Capital Region Emergency Response System in FY18.

| Training Name | Discipline | Agency | Date | Location | Description |
|---|---|---|---|---|---|
| FAA UAS Symposium | LE, Fire, EM | MDERS, MCPD, MCFRS, OEMHS | 6/2019 | MD | This annual event provides stakeholders with the opportunity to meet with industry leaders to discuss research, regulations, and procedures related to the start-up, maintenance, and sustainment of a small unmanned aerial system (sUAS) program. This unique event served as a platform for the FAA and the UAS industry to come together and chart a path forward to safely integrate drones, discuss evolving technologies, and foster innovation. |

| Training Name | Discipline | Agency | Date | Location | Description |
|---|---|---|---|---|---|
| International Association of Fire Chiefs (IAFC) Hazmat Conference | Fire | MCFRS | 06/2019 | MD | The training offered at the Hazmat Conference provides immediate, practical, and valuable information designed to ensure fire/ EMS and law enforcement personnel successfully meet the demands of hazmat response in today's challenging environment. |
| National Homeland Security Conference | Fire, EM | MDERS, MCFRS, OEMHS, PGOEM, MIEMSS | 6/2019 | AZ | The National Homeland Security Conference provides attendees with educational and informative sessions on best practices and emerging trends in homeland security and emergency management. |
| Command, Control, and Leadership Course | LE | PGPD | 7/2019 | LA | This course is designed for SWAT team commanders, team leaders, and assistant team leaders who may find themselves in a position of command during critical incidents such as a high-risk warrant service, barricaded suspect, hostage rescue, or other mission that may fall under the responsibility of a tactical unit. |

| Training Name | Discipline | Agency | Date | Location | Description |
|---|---|---|---|---|---|
| Pinnacle | Fire/LE | MDERS, MIEMSS, MCFRS, PGFD | 7/2019 | FL | Pinnacle brings personnel the latest fire/EMS information, leadership practices, and ideas Attendee's come away with the knowledge, tools, and confidence to help departments identify and manage situations, complicated events, and complex incidents. |
| NFPA 3000 | Fire | PGFD | 9/2019 | CA | The National Fire Protection Association 3000 set the standard to address response to active shooter hostile events. Fire/EMS personnel attending this meeting completed extensive research, proposed content changes, and ratified new components of the standard. |
| ALERRT | Fire, LE, Hospitals, EM, PH | MCFRS, MCPD, PGFD, PGPD, MSP, MDERS, Holy Cross, Doctors Community Hospital, MedStar Montgomery 9/2019 | 9/2019 | CO | The Advanced Law Enforcement Rapid Response Training (ALERRT) Conference focuses on integrated response topics for law enforcement, fire, EMS, physicians, and emergency management. |
| EMS World | Fire | PGFD | 10/2019 | LA | EMS World Expo provides training and knowledge to fire/EMS providers. The conference is based in lecture presentation, delivering hands-on training, and the opportunity to review current technology and equipment. |

| Training Name | Discipline | Agency | Date | Location | Description |
|---|---|---|---|---|---|
| MDERS Leadership Seminar | All | All | 10/2019 | MD | MDERS Leadership Seminar brought together a select group of mid-to senior-level leaders from in and around the Maryland-National Capital Region response community to explore core leadership principles and skills proven to have an impact in times of crisis. |
| Direct Action Resource (DARC) Advanced Operational Breaching Techniques Training | LE | PGPD | 11/2019 | | Advanced explosive breaching training is designed for those who will manage or Supervise an assaulter/ entry breaching program at their organization. This course focuses primarily on explosive breaching and the development and Sustainment of a breaching program. |
| International Association of Emergency Managers (IAEM) Conference | LE,EM | Multiple | 11/2019 | GA | This multi-day training and education event provides many benefits to all levels of government, the private sector, and non-government agencies alike. The conference includes a multitude of topics across the emergency management spectrum, enhancing your emergency manager's knowledge and strengthening their network of professionals. |

| Training Name | Discipline | Agency | Date | Location | Description |
|---|---|---|---|---|---|
| National Healthcare Coalition Preparedness Conference (MESH) | Hospitals | Doctors Community Hospital, Holy Cross Hospital, UMD PGHC | 12/2019 | TX | Annual national conference conceived and designed for healthcare coalitions. The presentations are a collaboration with partners and stakeholders from healthcare, public health, EMS, and academia with the goal of building a resilient healthcare infrastructure to support a whole community model for healthcare preparedness and response. |
| Direct Action Resource Center (DARC) 1 Counter-terrorism Training | LE | PGPD | 1/2020 | AR | Basic level counter-terrorism training that equips law enforcement with relevant and useful skills to combat a swarm type (Mumbai) attack. |
| Direct Action Resource Center (DARC) 2 Advanced Counter Terrorism Training | LE | PGPD | 2/2020 | AR | This is a continuation of the DARC-1 counter-terrorism course and includes live fire training environments, interior/exterior explosive breaching, and ballistic breaching training. The course covers advanced hostage rescue techniques, night vision capabilities, and additional development of sniper/observer support. |
| Professional Writing | EM | MDERS | 2/2020 | MD | The goal of this writing course is to provide tools and techniques to improve and/or enhance the writing skills of MDERS staff. |
| National Public Safety UAS Conference | LE, Fire, EM | MCFRS, MCPD, OEMHS, PGPD, PGFD | 3/2020 | VA | The purpose of this conference is to demonstrate the use of drones in public safety, with speakers and panels on fire, search and rescue, and law enforcement. |

| Training Name | Discipline | Agency | Date | Location | Description |
|---|---|---|---|---|---|
| Project Management Planning Course | EM | MDERS | 3/2020 | MD | The purpose of this course is to provide an overview of project management processes and best practices to enhance MDERS staff's ability to manage MDERS projects. |
| WordPress | EM | MDERS | 3/2020 | MD | To provide the knowledge, tools, and best practices necessary to redesign the MDERS website. |
| Tomahawk Close Quarter Combat Course | LE | MDERS | 3/2020 | MD | This course teaches trainees the principles and best practices of tactical entry and follow-on movement. The basic tactics course ensures trainees gain expertise in best practices in several essential tactical skills, including threat priorities, use of cover, room entries, and follow on movement. This course ensures all officers have a common foundation for operating as a team in CQC tactical environments related to methodical and threshold clearance operations. |

# Exercise Program

As part of the capability development process, MDERS works with partner organizations to conduct exercises. These exercises examine current performance against targeted capability levels, thereby identifying gaps. That information frames the next set of requirements to address the needed policy, resources, and metrics for improvement and further capability enhancement.

| Exercise Name | Discipline | Agency | Date | Location | Description |
|---|---|---|---|---|---|
| POD TTX/FX | Tabletop | PGPH | 6/26/19 | MD | This exercise teaches trainees the principles and best practices of point of distribution process. |
| TTX in a BOX Rockville City Police | LE | RCPD | 5/13/19<br>5/24/19<br>7/10/19 | MD | This course focuses on deployment of large caliber rifles ranging from conventional SWAT operations to planned overwatch positions. Vehicles intrusion continues to be a means of inflicting mass injury and death overseas and in the homeland. Large caliber rifles, deployed and with the correct ammunition can be an effective mitigating factor in reducing or stopping these attacks. |
| POD TTX/FX | PH | DHHS | 7/10/19 | MD | The goal of the exercise was to assess Montgomery County POD Management staff's ability to perform their roles and responsibilities utilizing confidently and successfully the POD Operations job action sheets (JAS) and just in time training. |

| Exercise Name | Discipline | Agency | Date | Location | Description |
|---|---|---|---|---|---|
| TTX in A Box Takoma Park Police Department (TPPD) | LE | TPPD | 10/21, 2/4/2019 | MD | The goal of the exercises was to strengthen TPPD first-line supervisors and command staff's understanding of basic incident command system (ICS) principles and the confidence to use them, roles and responsibilities and confidence to perform them, and reinforce understanding of interoperability and the need for unified command (UC). |
| EMS DO Phase 2 | Fire/EMS | PGFD MCFRS | 10/21, 10/28, 11/1, 11/8, 11/15, 11/18, 11/22, 12/2 | MD | The goal of the exercise was to assess Prince George's County POD management staff's ability to perform their roles and responsibilities utilizing confidently and successfully the POD Operations job action sheets (JAS) and just in time training. |
| TTX in A Box University of Maryland Prince George's Hospital | Hospital | UMMS | 2/11/2020 | MD | The goal of this exercise is to identify the need and discuss protocols for mass casualty triage and treatment of contaminated patients. |

# Tactical Emergency Casualty Care
# Montgomery County

## QUICK FACTS

This project funded Tactical Emergency Casualty Care (TECC) training equipment for the Montgomery County Police Department Special Operations Division. This includes (1) Patient Care TOMManikin and (1) set of manikin transport cases. Each manikin is built to withstand the physically demanding conditions of the training environment. The TOMManikin device provides the instructor with tools to develop, deliver, and tailor training scenarios based on the student needs. Two heavy duty canvas carrying cases provide compact storage and protection for all the equipment. This portability provides for efficient and effective scheduling of training. All equipment supports the capabilities for fire/EMS and law enforcement to respond to, treat, and transport to definitive treatment victims of a mass casualty incident in a clinically appropriate manner to maximize survivability.

**MDERS Budget:**

| Quantity | Item | Amount |
|---|---|---|
| 1 | TOMManikin | $45,000.00 |
| 1 | Set of carrying cases for the TOMManikin manikin | $816.00 |
| Total | UASI FY18 | $45,816.00 |

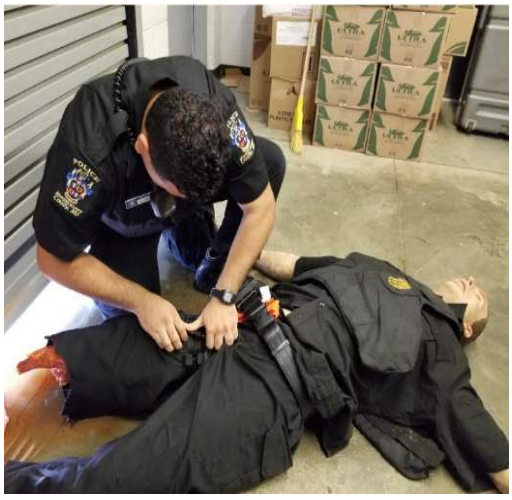
**Capability:** The Maryland-National Capital Region emergency response partners are able to triage, treat, and transport to definitive treatment victims of a mass casualty incident in a coordinated, inter-agency, and interdisciplinary response while maintaining the system's ability for continuity of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

**Outcomes:**

- This project delivers a manikin to police, and fire/EMS responders. This simulation tool and supplies allows providers to develop a systematic approach to trauma care assessment, treatment, and transport.
- This project delivers a mobile opportunity for instructors to go to the students.
- This equipment links the medical protocols to hands-on skills to build experience and confidence.
- The portability allows for the manikins to be used in tactical training environments, creating more realistic training and preparation.
- This project provides a logical exercise process for the integration of a safe and smooth hand-off from law enforcement to fire and EMS personnel.
- This program aligns the MDERS Strategic Plan with department capability development activities to treat responders and civilians in a high-threat environment.

# Tactical Emergency Casualty Care
# Montgomery County

The TOMManikin manikin simulates the 160 lbs weight and feel of an adult patient. Emergency responders demand durability in products. Built on a study steel frame, the device can withstand drops, falls, and drags. Instructors can arrange the multiple wound patterns to fit each scenario. Key design features provide immediate feedback for instructors, participants, and students to refine assessment techniques. This allows for multiple repetitions to refine skills, gain experience, and build confidence in decision-making skills.



Police officers receive hands-on experience training with a lifelike manikin. This allows the officers to learn about the life-saving equipment included in the trauma care bags each member is issued. Testimonials from officers highlight the value of this equipment. “Using the manikin provides me the experience to see how all the pieces of treatment fit together,” said one officer. The portable device allows for training to occur at almost any location. Working with the fire and EMS departments is critical to assure a smooth and safe hand-off to medical care. The TOMManikin provides that practical experience to share common training and tools for police and fire/EMS responders to improve operations.

The TOMManikin travel case contains all the equipment. A solid durable case provides protection for the torso and leg sections of the mannequin. Two sturdy handles provide easy grip action to move the case. Inside, deep compartments, allow space for storage of parts, tools, and other aids. Each case contains a set of high-density foam inserts. This feature provides operators with the ability to configure compartments for any specialized needs. The exterior of the case is scuff and puncture resistant.

# Public Access Trauma Care

## QUICK FACTS

These funds purchased (1080) Public Access Trauma Care (PATC) wall-mount cabinets for the Montgomery County Public Schools and Prince George's County Government Buildings. These cabinets are attached to walls in public buildings and venues, safely storing the PATC kits that were purchased for these locations in previous years. This configuration allows for immediate treatment of extremely time-sensitive traumatic injuries. The tourniquet and holder case provide school security personnel easy storage and quick access. These supplies complete the continuum of care from bystander treatment through hospital care.

**MDERS Budget:**

| Quantity | Item | Amount |
|---|---|---|
| 1080 | Public Access Bleeding Control Wall boxes | $103,812.06 |
| 647 | MCPS Bleeding Control Items for Security Guards (ex. Tourniquet) | $11,281.00 |
| 31 | Wound Cubes | $3,782.00 |
| 1000 | Public Access Bleeding Control signs | $9,624.94 |
| Total | UASIFY18 | $128,500.00 |

**Capability:**

The Public Access Trauma Care (PATC) Program enhances the response community by empowering civilians and bystanders to treat patients with life-threatening injuries. These bleeding control boxes will allow the public to access life-saving supplies prior to emergency response personnel arrival. The program includes instructional materials, hands-on training, and deployment of bleeding control supplies at public buildings, schools, and facilities.

**Outcomes:**

- Provide civilians and facility staff with the medical materials and training to effectively control life-threatening injuries on extremities, the torso, and the head.
- Provide civilians with easy to see public access bleeding control boxes.
- Provide civilians one-stop access to bleeding control and trauma equipment and supplies.
- Provide civilians with the tools and training to help regulate body temperature.
- Provide civilians with just-in-time bleeding control instruction.
- Safely and securely store Public Access Trauma Care kits that have been purchased and deployed to public schools, government buildings, and public venues.

# Public Access Trauma Care


The Combat Application Tourniquet (CAT) holder was specifically designed to allow school security personnel to place their tourniquet on their belt for rapid and easy access during emergencies. It is made of rugged nylon with connectors to secure the holder to the vest or gear. The holder protects the tourniquet from the elements and has an easy-open elastic pull tab.

Security officers are also equipped with Emergency Trauma Dressing bleeding control bandages. Both of these items match the tools found in the PATC, law enforcement, fire/rescue, and hospital kits to provide consistency throughout the treatment continuum.


The CAT is an affordable, lightweight, and rugged tourniquet. With a compact design, this device requires minimal storage space. A single route buckle decreases application time. This allows a rescuer to easily remove slack from the tourniquet on initial application, decreasing the time to stop blood loss.


The bleeding control cabinet is a heavy-duty box that contains the PATC kits that have medical equipment for emergency care. They are designed with universal red and white markings to alert citizens. Equipped with a single swing open door, it provides quick access to supplies. The exterior is rugged and protects the materials from all weather conditions. The cabinet is equipped with an alarm to notify those nearby that an emergency has occurred and the kit has been deployed. The kits inside the cabinet include supplies to treat massive hemorrhage, amputations, penetrating trauma, hypothermia, and other life threatening, time sensitive injuries.

# Mass Casualty Incident Response

## QUICK FACTS

This project provided resources to fire and EMS personnel to enhance their ability to respond to mass casualty incidents. Included is a web-based medication calculation tool for pediatric patients. This tool provides fire and rescue teams rapid access to life-saving dosing, equipment selection, and medication route administration. Each incident is integrated into the patient care record. In addition, the software provides a real-time hazardous material medical reference. The wireless vital sign monitors provide fire and EMS crews the ability to observe multiple patients. This includes at the patient's side, in a remote location, or providers working inside austere environments. Each monitor collects data on a regular cycle and imports that information into the patient care record.

**MDERS Budget:**

| Quantity | Item | Amount |
|---|---|---|
| 2 | Handtevy software licenses | $9,000.00 |
| 100 | Handtevy Calculation Tools | Included |
| 6 | Wireless vital sign monitors | $37,999.32 |
| Total | UASI FY18 | $46,999.32 |

**Capability:**

This project will ensure providers can triage, treat, and transport to definitive treatment victims of a mass casualty incident in a coordinated, inter-agency, and interdisciplinary response while maintaining the system's ability for continuity of operations.

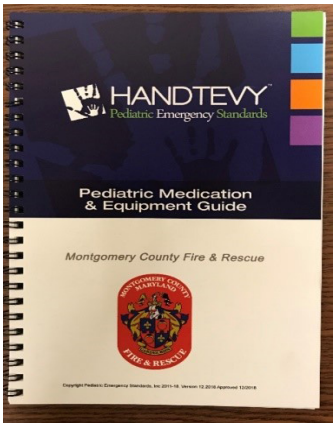
**Outcomes:**

- Provide county-wide licenses (for both Prince George's and Montgomery Counties) for the Handtevy Medication System software. This cloud-based application provides medication and treatment guidelines for chemical and biological exposures, as well as pediatric emergencies.
- At the patient's side, providers access the pediatric medication and equipment application. This software provides direction on correct dosage, proper equipment, and administration route.
- Providers can simultaneously monitor the vital signs of several patients. These devices are interoperable between the county fire/rescue/EMS departments, providing a regional set of tools for use on a terrorist or complex coordinated attacks.
- Patient information is linked to medical records for quality assurance and improvement review by local departments.

# Mass Casualty Incident Response


The wireless vital signs monitor (WVSM) is affordable, fast, and easy to use. It attaches quickly and stays with the patient from point of injury to treatment center where medical information is automatically downloaded. A unique feature of the WVSM is its ability to monitor multiple patients. Up to 20 patients can be wirelessly connected simultaneously on one computer or iOS device, allowing a single provider to monitor many patients. Multiple patients can also be monitored in treatment and care facilities to assess conditions over time and for those patients with chronic disease.

The Handtevy system features several distinct items. Providers apply a roll-out measuring tape. This tape measures the child's height and, based on size, calculates critical medical interventions. These include the correct size airway equipment for simple and complex procedures. Medication calculations are printed on the tape for quick-glance administration. The tape is color-coded. Each bag is formulated to provide the correct medication dosage, route, and set-up tool for administration. The simple system ensures the clinically appropriate treatment for all patients, especially pediatrics. This is particularly important for this population, as providers rarely encounter severely sick or injured children, and therefore require tools to promote optimal care.




The Handtevy hard copy text provides the emergency medical services provider the ability to look up pediatric medications and equipment. A color-coded tape measuring tape is used in the initial physical assessment of the patient. Providers select the corresponding color and flip to the corresponding pages in the text. This section provides a list of appropriate medications and doses, depending on patient characteristics and the illness or injury. Easy-to-use calculations allow for the correct does of the medication. Additional instructions guide in the proper administration steps and follow-up actions. Other features include pediatric equipment references.

# Incident Command System

## QUICK FACTS

This project delivers radio equipment and software to enhance the Montgomery County Fire and Rescue Service Command Officer Professional Development Instruction program. Incident commanders require the repeated exercising of tasks and activities to refine skills. This project delivers the radio hardware to the department command lab facility. The radio equipment allows for the development of multiple student workstations, each with a desk, radio with microphone, and personal set of headphones. Simulation software allows for the creation of events that replicate fire incidents. Command and Public Safety Academy staff develop the scenario components. The Sims U Share application allows for the manipulation of conditions to include fire, smoke, and changing views of the structure.

**MDERS Budget:**

| Quantity | Item | Amount |
|---|---|---|
| 1 | Sims U Share Software | $17,446.63 |
| 1 | (14) desk sets, (6) radio towers and equipment to support installation | $58,899.60 |
| Total | UASI FY18 | $76,346.23 |

**Capability:**

The Maryland-National Capital Region emergency response partners can effectively direct and control incident activities by using the Incident Command System (ICS) consistent with the National Incident Management System (NIMS).

**Outcomes**:

- This project completes the Montgomery County Fire and Rescue Service Command Officer Professional Development Instruction Lab capability.
- This capability provides a standard configuration of radio equipment in the lab that mirrors the field units.
- Incident commanders receive standard, repeated training to test competency, then build knowledge, skills, and abilities.
- Simulation software is provided to the jurisdiction through Sims U Share technology. This web-based application allows the user to create specific scenarios identified from recent incidents. The application is user-friendly, allowing quick set up and easy updating as needed.
- Simulation software is a regional product between the Montgomery and Prince George's County fire departments. Personnel are collaborating in building scenarios.

# Incident Command System

The Sims U Share software provides personnel the ability to design structure fire incidents. Personnel can take photos of local structures, specific target hazards, or past incidents. That foundational data is placed into a working file that can be accessed by programmers. With that foundation, trainers add elements of smoke, fire, and other conditions. Training to use these tools is completed by webinar, from the host website, or in face-to-face sessions. The ability to create custom simulations allows for targeted skill development for incident commanders.

The hardware tower configuration provides multiple racks for radio storage at one location. This feature provides staff with the ability to use the Montgomery County Fire and Rescue radio channels to conduct simulated fire incident response training. Accurately recreating scene conditions, such as equipment that will be used, best prepares the incident commander by eliminating any unfamiliarity during times of stress.

The headset device provides each student the ability to function at their workspace. This private environment allows for monitoring of the incident and participation as an individual player, or as part of a command team. The student can build situational awareness by viewing several screens to gather information. Exercise control personnel can monitor the student activity from a remote location. That action provides feedback to the student on individual actions and tasks selected to address the incident. These resources provide the environment for situations and repetitions.

# FirstWatch Situational Awareness

## QUICK FACTS

FirstWatch is a secure system that aggregates raw data from a number of first responder resources, including computer-aided dispatch and patient care reports. By aggregating and analyzing this data, the software provides system managers and field personnel with actionable information to guide their work. Benefits include real-time situational awareness, emergency resource management, improved operational performance, and monitoring of clinical skills and patient outcomes.

**MDERS Budget:**

| Quantity | Item | Amount |
|---|---|---|
| 1 | FirstWatch software - MCFRS | $41,136.00 |
| 1 | FirstWatch software - PGFD | $34,277.00 |
| 1 | FirstWatch software - DCFD | $36,041.00 |
| 1 | FirstWatch software - Loudoun County | $24,680.00 |
| 1 | FirstWatch software - Prince William County | $85,380.00 |
| 1 | FirstWatch software - Alexandria | $14,465.00 |
| 1 | FirstWatch software - Arlington | $78,521.00 |
| Total | UASI FY18 | $314,500.00 |

**Capability:**

FirstWatch provides the National Capital Region emergency responders the ability to convert raw data into meaningful information. The software connects to existing computer systems to securely capture, translate, and transmit data to communicate and share situational awareness. Built with a sophisticated software package, the components gather computer-aided dispatch, and EMS records to improve performance and delivery of services.

**Outcomes:**

- Provides real-time and actionable data for the assignment of resources.
- Creates an evidence-driven system to support decisions.
- Creates a real-time reporting tool for performance monitoring and improvement.
- Creates process owners to implement monitoring in stroke, trauma and cardiac arrest incidents. That information is converted to performance improvements in real-time.
- Creates real-time analytics and visual graphs to explain performance in simple terms to responders, management, and leaders.
- The system has expanded throughout the NCR to provide a common platform for optimal interoperability

# FirstWatch Situational Awareness

The FirstWatch program is a National Capital Region initiative to provide emergency response partners the ability to effectively communicate and share information to maintain situational awareness. Services provided include data collection from the CAD system, patient care records, and local information sources.

- **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.

# Tactical Equipment for Law Enforcement Prince George's County Maryland

## QUICK FACTS

This project delivers specialized equipment for Maryland-NCR Special Weapons and Tactics (SWAT) team members in Prince George's County. These teams respond to high-threat and complex attacks. This project purchases one Tyler Bench, one omni-directional camera, two detached night scopes, one rapid response vehicle (Tahoe), three large throw robots, forty helmet strobes. These items are deployed with SWAT officers to enhance their ability to respond to and mitigate high-threat and terrorist events, while maximizing officer safety.

**MDERS Budget:**

| Quantity | Item | Amount |
|---|---|---|
| 1 | Tyler bench | $42,976.15 |
| 1 | Omni-directional camera | $4,933.90 |
| 3 | Large throw robots | $46,935.00 |
| 2 | Night vision scopes | $17,700.00 |
| 1 | Rapid response Vehicle | $61,779.48 |
| 40 | Helmet strobes | $7,646.94 |
| Total | UASI FY18 | $181,971.47 |

**Capability:**

This project delivers additional gear for Maryland-NCR SWAT team members in Montgomery and Prince George's County responding to terrorist events, complex coordinated attacks, and other high-threat situations.

**Outcomes:**

- The Tyler Support Operational Platform provides officers the in-air stabilization to complete mission functions to include observation, rappel operations, and equipment transportation while operating on the PGPD helicopter platform.
- The night vision scopes allow personnel to perform remote observation during field operations in dark and low-light conditions.
- Night vision scopes are detachable, and can be used on and off the tactical helmet. This tool allows for long-range, sometimes long-term observation of tactical, structural, or rescue operations.
- The large throw robot is an easily deployed micro-robot platform that enables operators to obtain instantaneous video and audio reconnaissance.
- The bounce camera addresses the challenges in a 360-degree view. This increased situational awareness allows for safe and appropriate deployment of resources.

# Tactical Equipment for Law Enforcement
# Prince George's County Maryland

An omni-directional camera, also known as a bounce camera system, provides a full 360-degree view for situational awareness. The camera maintains vertical and horizontal video stability even as the system rolls, bounces, or hangs on a rope. Deployed by a single user, the camera is light weight, portable, and requires no other equipment to place into action. Linked to an encrypted web-based server, the system allows connection to multiple devices. A commander in one location can provide direction to other resources at a remote location.

The helmet light strobe is part of the special operations law enforcement officer equipment. Each light is equipped with three separate settings. One for low light setting, a second for full light, and an infra-red setting for aviation tracking. This device allows incident commanders to maintain situational awareness of personnel. Coordination and collaboration of resources is critical at emergency incidents. This device provides the law enforcement officers the tools required for complex missions.

The tactical response vehicle provides law enforcement officers the platform to respond to high-threat and terrorist attacks. Built on a sport utility frame, the vehicle allows access in all weather conditions and off-road incidents. Interior configuration provides large cabinets for equipment storage. A locking system provides safe and secure storage for medical supplies, response gear, and equipment. The slide-out tray configuration delivers easy access for all products.

# Small Unmanned Aerial Systems
# Montgomery County

## QUICK FACTS

This project purchased small unmanned aerial system (sUAS) components for use by public safety agencies in Montgomery County. Drone technology provides responders with real-time situational awareness and scene assessments during complex and hazardous situations. These funds purchased several sUAS platforms and accessories for fire/rescue, law enforcement, and emergency management use. Policy development through consultation with recognized industry subject matter experts was also funded through the program. MDERS assisted all recipient agencies to develop policies and procedures that adhere to all national, state, and local guidelines and requirements. Training for drone operation, maintenance, and documentation is part of the project.

**MDERS Budget:**

| Quantity | Item | Amount |
|---|---|---|
| 1 | Policy Development | $11,885.58 |
| 8 | (8) drones of various models, generator, and accessories. | $61,748.60 |
| Total | UASI FY18 | $73,634.18 |

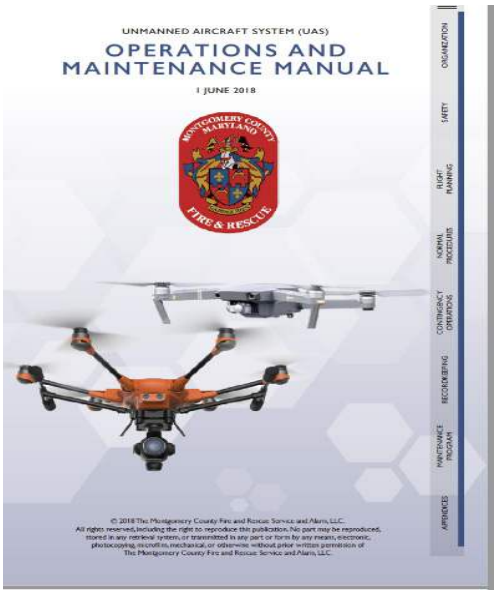
**Capability:**

The Maryland-National Capital Region emergency response partners can achieve maximum situational awareness and scene assessments from unique vantage points while protecting personnel from unnecessary danger.

**Outcomes:**

- Fire/EMS will use sUAS equipped with cameras to capture and share live video to increase situational awareness.
- At complex incidents, the sUAS provides real-time awareness of the conditions. This provides incident commanders with timely information to make decisions.
- The sUAS tools provide a fast, efficient, and safe method to gain situational awareness of a fire scene, water rescue, or active law enforcement activity.
- The sUAS technology maintains rigorous standards, which include flight instruction, certification, and maintenance of all aircraft.
- sUAS vehicles can carry a payload of supplies to victims trapped at water emergencies, in need of medical supplies, or other events.
- The platforms are designed to have features added in the future, such as hazardous material sensors and infrared technology.

# Small Unmanned Aerial Systems
# Montgomery County




Professional services for the small unmanned aerial system (sUAS) program were obtained from a team of subject matter experts. A unique manual was created for the Montgomery County public safety agencies. The information and instructions provided in this manual are intended to assist the public safety departments with the safe operation of their sUAS. The instructions provided in this manual have been written specifically for personnel who have received training in the operation and maintenance of the sUAS they are flying. This manual guides all sUAS operations, creating a consistent procedure based on experienced and expert input, while maintaining compliance with local, state, and federal regulations.

The drone aircraft provide several distinct features for fire/EMS and police agencies. This tool is light weight, easy to launch, and delivers critical data, such as the size of the incident, location of personnel, and hazard assessment. These features deliver key facts to guide the appropriate direction for first responders and impacted communities, and best align response assets to safely address the situation.

The drone tool kit provides the components to service the aircraft. Federal Aviation Administration regulation require a regular maintenance process. Work completed in the operations manual outlines the categories of work. The fire/EMS and police agencies, working with industry experts, developed a program for routine and emergency maintenance. Each kit provides the necessary tools, replacement parts, and supplies for repairs.

# Small Unmanned Aerial Systems
# Prince George's County Police Department

## QUICK FACTS

This project purchased small unmanned aerial systems (sUAS) components for use by public safety agencies in Prince George's County. Drone technology provides responders with real-time situational awareness and scene assessments during complex and hazardous situations. These funds purchased several sUAS platforms and accessories for fire/rescue, law enforcement, and emergency management use. Policy development through consultation with recognized industry subject matter experts was also funded through the program. MDERS assisted all recipient agencies to develop policies and procedures that adhere to all national, state, and local guidelines and requirements.

**MDERS Budget:**

| Quantity | Item | Amount |
|---|---|---|
| 1 | Matrice 200 platform | $24,250.30 |
| 1 | License for mapping software | $3,000.00 |
| 1 | Phantom 4 RTK platform | $9,843.94 |
| 6 | Mavic 2 platform | $22,385.76 |
| Total | UASI FY18 | $59,480.00 |

**Capability:**

The Maryland-National Capital Region emergency response partners can achieve maximum situational awareness and scene assessments from unique vantage points while protecting personnel from unnecessary danger.

**Outcomes:**

- The Prince George's County Police Department developed the sUAS policy manual, procedure elements, and documents. This serves as the model for other public safety agencies.
- This manual serves as the standard operating procedure for sUAS Operations for the Prince George's County Police Department.
- This SOP provides internal deployment, responsibility, training, safety, and maintenance for UAS Operations.
- The sUAS technology maintains rigorous standards, which includes; flight instruction, certification, and maintenance of all aircraft.
- sUAS vehicles can carry a payload of supplies to victims trapped at water emergencies, in need of medical supplies, or other events.
- The platforms are designed to have features added in the future, such as hazardous material sensors and infrared technology.

# Small Unmanned Aerial Systems
# Prince George's County Police Department

The Matrice 200 RTK is a durable drone built on a sturdy platform. This design allows the aircraft to fly in strong winds, and inclement weather. Public safety personnel need this reliability to complete critical missions under high stress and in dangerous environments. This drone design allows for several devices to be attached. A high-resolution camera assists personnel to obtain accurate pictures to build situational awareness. A real-time kinematic sensor provides valuable information in search and rescue for missing people.

The Phantom 4 RTK + D RTK drone gathers geographic data for mapping. This data empowers public safety leaders with information to accurately assess scenes, damage, and response needs. Timely information assists incident commanders to develop accurate situational awareness. Equipped with a camera and sensors, the device examines virtually any distance and angle. A large command dock displays readings to the flight crew. This device is used in search and rescue missions, motor vehicle accident reconstruction, and damage assessments.

Small Unmanned Aerial aircraft (sUAS) are commonly referred to as drones. These tools improve public safety efficiency and effectiveness. The lightweight device quickly and easily attaches to an iPad, making for quick deployment and easy operation This provides on-scene personnel a real-time view of the incident. Accurate information allows incident commanders data to allocate the correct type and number of resources to emergency scenes. The DJI Mavic 2 device provides key features for fire/rescue/EMS, law enforcement and emergency management. These include a high-resolution camera, obstacles sensors, user-friendly controls, enhanced automation to minimize risk, and 30-minute flight time battery.

# Tactical Emergency Medical Services
# Prince George's County

## QUICK FACTS

The Prince George's County Tactical Emergency Medical Services (TEMS) program is a combination project between the police and fire departments, intended to provide medical personnel to protect law enforcement officers in high-threat situations. This deployment model provides immediate response of on-duty medics to active violent incidents. Each member is assigned a vehicle. The vehicles are equipped with communications equipment, including tow mobile data computers, charging ports, and a computer-aided dispatch device. A large screen provides all occupants a crisp view of the information. The medic carries a complete inventory of medical bags to deploy as single provider. The vehicle provides secure storage for medical supplies and law enforcement equipment. Medics can reconfigure the inside of the vehicle with a quick-fold seat to provide space for a hasty evacuation.

**MDERS Budget:**

| Quantity | Item | Amount |
|---|---|---|
| 2 | Tactical Emergency Medical Services (TEMS) response vehicles | $123,004.10 |
| Total | UASI FY18 | $123,004.10 |

**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.

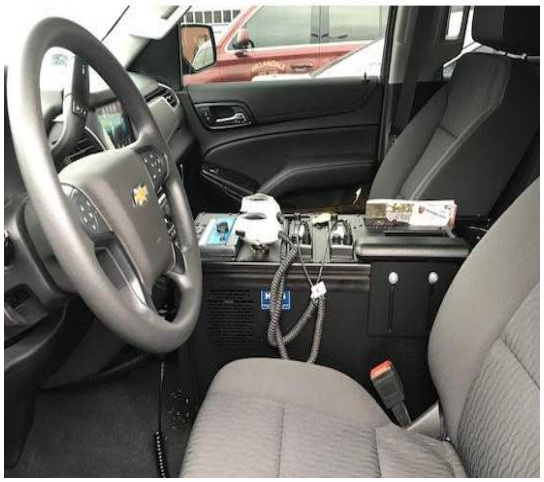
**Outcomes:**

- Fire/rescue/EMS and law enforcement personnel coordinate quick response to active violent incidents, complex coordinated attacks, and terrorist events.
- Public safety personnel share identical situational awareness through shared communications and equipment.
- Special operations medics routinely deploy vehicles during high-threat situations to build experience.
- The fire/EMS and law enforcement personnel deploy in assigned tactical teams to engage threats, render the scene safe, and provide point of injury emergency medical care to patients.
- Specialized medics can instantly deploy from remote locations with individual response vehicles, reducing delays.
- Personnel quickly and smoothly transfer casualties out of the high-threat zone for transport to medical facilities.

# Tactical Emergency Medical Services
# Prince George's County

This project provides one Chevrolet Suburban and one Chevrolet Tahoe to the Prince George's County Fire/ EMS Department. These vehicles are designed as quick response vehicles for the Tactical Emergency Medical Services personnel. Built on a heavy-duty frame, the vehicle offers all weather and off-road driving capability. As a medical platform, the vehicle is equipped with large storage compartments for medical supplies, personal gear, and equipment. Each provider is equipped with a full complement of emergency medical and law enforcement equipment, to perform medical missions in high-threat areas.

The two rear slide-out trays provide access for offloading of resources. Large interior cabinets provide ample storage for tactical equipment, mass casualty bags, and patient evacuation supplies. Rugged cabinets withstand the austere environment, weather conditions, and normal wear and tear. A tiered design allows medics and team members visibility into the rear seat and back compartment areas. A quick fold-down seat provides space to place a patient flat for treatment or hasty evacuation from the scene.



The interior vehicle configuration provides for a command area in the front with multiple mobile radios, computer-aided dispatch mount, and computer storage. A work area allows for documentation, storage of reference materials, and a secured space for consultation and planning activities. Rear seat configuration allows for multiple personnel to load into the rear. The design provides a quick configuration capability to add additional equipment Both the Montgomery and Prince George's County units are designed the same, providing for interoperability for medical management at complex events that involve both jurisdictions.

# Tactical Equipment for Law Enforcement Montgomery County

## QUICK FACTS

This project purchased two vehicles and a LifePak 15 cardiac monitor for the Montgomery County Police Department. One of the vehicles is designed as a quick response truck for Montgomery County Police SWAT officers. Built on a pickup truck with a cap, this vehicle functions as a tactical medical platform. This configuration permits response to a variety of incidents to include terrorism and complex coordinated attacks. The second vehicle is a four-wheel drive tactical van used by the Montgomery County Police SWAT. This vehicle provides all-terrain driving access for a complete team of personnel to deploy from a single vehicle. Inside, the quick-release cabinets allow for storage and configuration to meet the demands of the mission. The LifePak 15 is the state-of-the-art cardiac monitor defibrillator. This device is used by the police paramedics for emergency patient care to both fellow officers and civilians, particularly in high-threat environments.

**MDERS Budget:**

| Quantity | Item | Amount |
|---|---|---|
| 1 | Tactical van | $50,000.95 |
| 1 | Tactical truck | $40,712.40 |
| 1 | LifePak 15 cardiac Monitor | $39,044.20 |
| Total | UASI FY18 | $129,757.55 |

**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:**

- The LifePak 15 gives medics the biomedical assessment tools to interpret cardiac rhythms, measure critical vitals signs, and deliver life-saving treatments.
- The Tactical Emergency Medical Services vehicle provides police medics rapid response, 4-wheel drive access for off-road incidents, with room to carry four personnel.
- The Tactical Medical Truck provides a mobile, safe, dedicated space for medical operations. An open interior design provides teams a protected space to meet, communicate sensitive information, and plan out mission tactics.
- This all-wheel drive van permits police operations in all weather conditions.
- The all-wheel drive van exterior design provides a work truck look. This allows personnel concealment to execute activities in a fast and exact manner.

# Tactical Equipment for Law Enforcement Montgomery County

The Tactical Emergency Medical Service (TEMS) vehicle is built on a heavy-duty frame for quick response. This feature provides the power and durability required to safely arrive and position for deployment. Large interior cabinets provide ample space for storage and protection of all medical supplies. The organized, custom cabinetry and trays make the medical kits, personal protective equipment, and law enforcement gear quickly accessible and deployable.

The LifePak 15 cardiac defibrillator/monitor allows TEMS paramedics the ability to assess and treat cardiac conditions in officers and civilians. The device is ruggedized for field use, and is suited for austere conditions. The unit features numerous biomedical monitors, capable of measuring cardiac rhythms, carbon dioxide levels, blood pressure, pulse, respirations, and oxygen levels. In addition, the device interprets cardiac rhythms in 12 leads allowing for comprehensive diagnosis of advanced cardiac disorders.

The all-wheel drive van allows an entire team of SWAT personnel to deploy from a single vehicle. It has adequate space to safely store the equipment required for the mission. The van is built on a heavy-duty truck frame, giving it the power and durability to navigate off-road terrain. Inside are large bench seats that provide ample space for fully geared officers. Equipped with two heating and air conditioning units, personnel maintain a comfortable environment, also allowing for personnel to rest during extended operations or adverse climates. The vehicle configuration also supports movement of casualties from a high-threat environment where traditional ambulances cannot access. The van has Velcro walls with white boards for a hasty meeting place to review tactics of the mission.

# Emergency Management Response Capability Enhancement

## QUICK FACTS

This project provides vehicles, personal response kits, and incident response support equipment to allow for emergency deployment of emergency management personnel in the Montgomery and Prince George's Counties. This equipment will allow emergency management officials to quickly respond to the scene of an emergency to assist allied agencies and civilians. Emergency management will now be able to perform a variety of functions without relying upon allied agencies for transportation or specific pieces of equipment.

**MDERS Budget:**

| Quantity | Item | Amount |
|---|---|---|
| 2 | Response vehicles | $117,519.73 |
| 20 | Personal readiness bags to include helmets, vests, N95 masks, flashlights, head lamps, gloves, first aid kits. | $8,640.46 |
| 4 | Portable printers | $10,609.08 |
| Total | UASI FY18 | $136,769.27 |

**Capability:**

The Maryland-National Capital Region emergency response partners can expeditiously, effectively, and efficiently respond to and mitigate a natural or man-made event to minimize harm and impact to victims.

**Outcomes:**

- The emergency management personnel have the personal response kit resources to respond to emergency incidents.
- The field support kits provide personnel with all of the equipment to operate in the field, including computers, communications, and power devices.
- Personnel are now able to fulfill their defined role in the on-scene incident command system.
- Emergency management teams connect on-scene personnel with outside agencies from local, state, and federal government, as well as the private industry, to meet unique needs, especially during complex incidents.
- Emergency management personnel provide a system expertise to the incident commander to rapidly identify, effectively request, deploy, and repatriate resources necessary to mitigate an emergency incident.

# Emergency Management Response Capability Enhancement

The Emergency Management Readiness (EMR) kit provides the individual Emergency Management Specialists with the basic equipment, required supplies, and tools to start operations at the scene of an incident. The concept of operation is to alert personnel to respond to the scene and assemble the emergency management section within the Incident Command System. Each kit is assembled into a backpack made of a durable water-resistant lightweight nylon. The standard inventory includes a hard hat, N95 and filter masks, basic first aid kit, flashlights, and general office supplies.

The Emergency Management Response Field Readiness Kit provides the portable technology tools for the Emergency Management Specialist to function on the scene of an incident. Each kit is constructed of a heavy-duty Pelican box, which provides protection for the equipment in the austere environment. Each case has rolling wheels and quick pull-up handle allowing ease of transport. The box is marked with easy to read logos and a lock-tight latch assembly for on scene security of all equipment. Inside the case several technology tools to assist staff, including computers, chargers, and radio equipment..

This project provides response vehicles for the two emergency management agencies in Montgomery and Prince George's Counties. Built on a sport utility platform, this vehicle can handle austere conditions and off-road travel. The interior configuration provides storage capacity for necessary equipment and supplies. Additional features include a rugged radio mount and heavy-duty electrical system. A full response package includes emergency warning lights, dual sirens, and high-intensity scene lighting.

# Medical Resource Officer
# Montgomery County

## QUICK FACTS

This project includes funding for one staff member to coordinate and manage the Medical Reserve Corps (MRC) volunteers. The MRC is a national network of volunteers, organized locally to improve the health and safety of their communities. MRC units engage these volunteers to strengthen public health, improve emergency response capabilities, and build community resiliency. This staff member provides oversight, administrative guidance, recruitment, background clearances, credentialing, training, exercising, deployment protocols, and emergency plans and tools to prepare the MRC members for a range of activities and responses. This coordinator ensures that the volunteers and volunteer processes have a point of contact and sponsor that is accountable for its development.

**MDERS Budget:**

| Quantity | Item | Amount |
|---|---|---|
| 1 | Full-time staff | $105,103.93 |
| Total | UASI FY18 | $105,103.93 |

**Capability:**

The Maryland-National Capital Region emergency response partners can expeditiously, effectively, and efficiently respond to and mitigate a naturally occurring or man-made event to minimize harm and impact to victims.

**Outcomes:**

- The Medical Resources Officer (MRO) was filled with a full-time position. The position functions from the Dennis Avenue location of the Montgomery County Department of Health and Human Services.
- An MRC Volunteer Handbook is in draft. This document states the administrative procedures, processes, and policies to be followed by MRC participants.
- New volunteer orientations were completed with just-in-time training to address the many roles with the COVID-19 Pandemic.
- The Volunteer Management System for credentials is in place. This program tracks the credentialing process for all participants. The volunteer training plan is created. This aligns the volunteer development process with the core competencies of Disaster Medicine and Public Health (DMPH).

# Medical Resource Officer
# Montgomery County

Montgomery County Medical Reserve Corps (MCMRC) members participate in training. This coursework is a combination of learning methods. The on-line classwork combines standard health curricula with unique features of Montgomery County to prepare volunteers to best serve their unique community. Group training sessions reinforce skills discussed, and create a team environment to apply skills. Team members assemble at the Dennis Avenue Public Health Command Post to perform each function.

Members of the MCMRC participate in several drill scenarios. Each member rotates to a different role in each scenario. All sessions have a trained facilitator to guide the players through the exercise. Each session follows a similar pattern to introduce the players to the scenario. Players assign themselves into a team and review notes prior to the start of play. During the event, injects are systematically delivered to the team leader. These injects are designed to simulate the cadence of an incident. All incidents receive a hot wash. Every member receives written feedback on their performance.


Volunteers provide many services at incidents. MCMRC members need to know the process and where they fit into the delivery. Key staff provide a detailed explanation of all the pieces that make up the systems. Each member participates in handling the products. This step provides members the opportunity to identify new products. Active discussion enables the exchange of information. The output of that session provides volunteers with the confidence to execute the activities. Members are able to fulfill several different roles following this training.

# Medical Resource Officer
# Prince George's County

## QUICK FACTS

This project includes funding for one staff member to coordinate and manage the Medical Reserve Corps (MRC) volunteers. The MRC is a national network of volunteers, organized locally to improve the health and safety of their communities. MRC units engage these volunteers to strengthen public health, improve emergency response capabilities, and build community resiliency. This staff member provides oversight, administrative guidance, recruitment, background clearances, credentialing, training, exercising, deployment protocols, and emergency plans and tools to prepare the MRC members for a range of activities and responses. This coordinator ensures that the volunteers and volunteer processes have a point of contact and sponsor that is accountable for its development.

**MDERS Budget:**

| Quantity | Item | Amount |
|---|---|---|
| 1 | Full-time staff | $98,395.96 |
| Total | UASI FY18 | $98,395.96 |

**Capability:**

The Maryland-National Capital Region emergency response partners can expeditiously, effectively, and efficiently respond to and mitigate a naturally occurring or man-made event to minimize harm and impact to victims.

**Outcomes:**

- The Medical Resources Officer was filled with a full-time position. The position functions from the Prince George's Health Department McCormick Court Office location.
- An MRC Volunteer Handbook is in draft. This document states the administrative procedures, processes, and policies to be followed by MRC participants.
- Bylaws are in progress. The Prince George's County MRC Unit is forming an internal stakeholder steering committee to assist with the creation of the bylaws.
- New volunteer orientations are being conducted quarterly in accordance with the training plan.
- The Volunteer Management System for credentials is in place. This program tracks the credential process for all participants. The volunteer training plan is created. This aligns volunteer development process with the core competencies of Disaster Medicine and Public Health (DMPH).

# Medical Resource Officer
# Prince George's County

Prince George's County Medical Reserve Corp (PGMRC) members participate in training for the COVID-19 testing facility. The volunteers of the PGMRC provided countless hours to the COVID response, including planning, testing, and vaccination staffing and expertise. The teams were incorporated with other health and medical staff to form a cohesive group to accomplish the mission. During a time when an abundance of personnel resources were necessary in short order, and for an extended period, the volunteers rose to the occasion. The MRC Coordinator worked to plan and execute the staffing strategies.


Members of PGMRC participated in COVID-19 response activities. These activities included a check-in to the activity, briefing of the activities, and role assignment. Each facility provided an orientation of the site. Personnel filled roles for set up, guiding participants through the process, and documenting important information on events. Clinical roles included nurses, epidemiologists, and allied health workers. All these personnel played critical roles in delivering current information, patient care, and healthcare to the residents.


Members of the PGMRC and Prince George's County Public Health Department (PGPH) work together. These sessions provide staff the opportunity to listen to the needs of the volunteer personnel. Working together, the group developed goals and objectives to fit several programs within the county. The output of this session was an orientation manual for new MRC members. Volunteers can now integrate with Health Department staff on a variety of missions.

# Disabilities, Access, and Functional Needs Coordinator

## QUICK FACTS

The Disabilities, Access, and Functional Needs Coordinator (DAFNC) is an integral support for all MDERS activities. The DAFNC advises MDERS staff and Steering Committee Representatives on matters related to planning for people with disabilities and others with access and functional needs. In this unique position, the DAFNC ensures that regional operations account for the unique access and functional needs of individuals, and that all emergency plans and operations are inclusive of all populations. In addition to advising regional operations the DAFNC provides technical assistance and subject matter expertise to local jurisdictions for emergency operations that may impact people with disabilities and others with access and functional needs across the impacted communities.

**MDERS Budget:**

| Quantity | Item | Amount |
|---|---|---|
| 1 | Personnel | $118,000.00 |
| 1 | Cell Phone | $1,000.00 |
| 1 | Technology Resources | $13,622.00 |
| 1 | Travel/training | $10,000.00 |
| Total | UASI FY18 | $142,622.00 |

**Capability:**

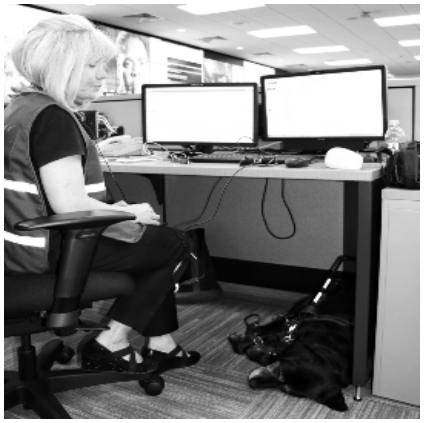
The Maryland-National Capital Region Emergency response System will be a resources for the emergency response community for inter-jurisdictional, interdisciplinary coordination and capability development.

**Outcomes:**

- Coordinate emergency planning efforts with local, state, federal, and private sector partners to ensure that plans, products, and response address the needs of people with disabilities, access, and functional needs.
- Assist emergency managers and shelter planners concerning development and provisions of support services that meet access and functional needs in general population shelters, congregate care settings, and reunification centers.
- Provide expertise to senior leadership, emergency managers, and other stakeholders of disaster-impacted jurisdictions about strategies to meet lifesaving and life-sustaining needs including early warning and communication access.
- Help ensure that all plans, policies, and practices are compliant with legal and regulatory requirements.

# Disabilities, Access, and Functional Needs Coordinator

The position is responsible for enhancing state emergency planning efforts that are coordinated to adequately address the needs of persons with disabilities and other functional needs in emergency preparedness and response training; developing and implementing outreach strategies that prepare people with disabilities for natural and man-made emergencies or general disasters; and coordinating planning efforts with partners in the National Capital Region.



The coordinator provides subject matter expert direction to each jurisdiction An important example is the continued distribution of 'Disabled, Access, and Functional Needs Toolkit.' This toolkit can be customized to meet the needs of a jurisdiction. The toolkit has been printed and distributed. A digital version is available online. This document provides direction and guidance to the region on how to be inclusive in all emergency planning efforts, including response policies and practices.

This program provides subject matter expertise to many groups. These meetings include NextGen 911 Commission, Assistive Technology/Recovery Support Functions, and the MDERS Steering Committee. The DAFNC works with her counterparts throughout the National Capital Region to ensure consistency in an area that demands routine mutual aid and interoperability. The position is staffed through the Maryland Department of Disabilities, but works regularly with agencies across the state, region, and country.

# ACRONYMS & ABBREVIATIONS

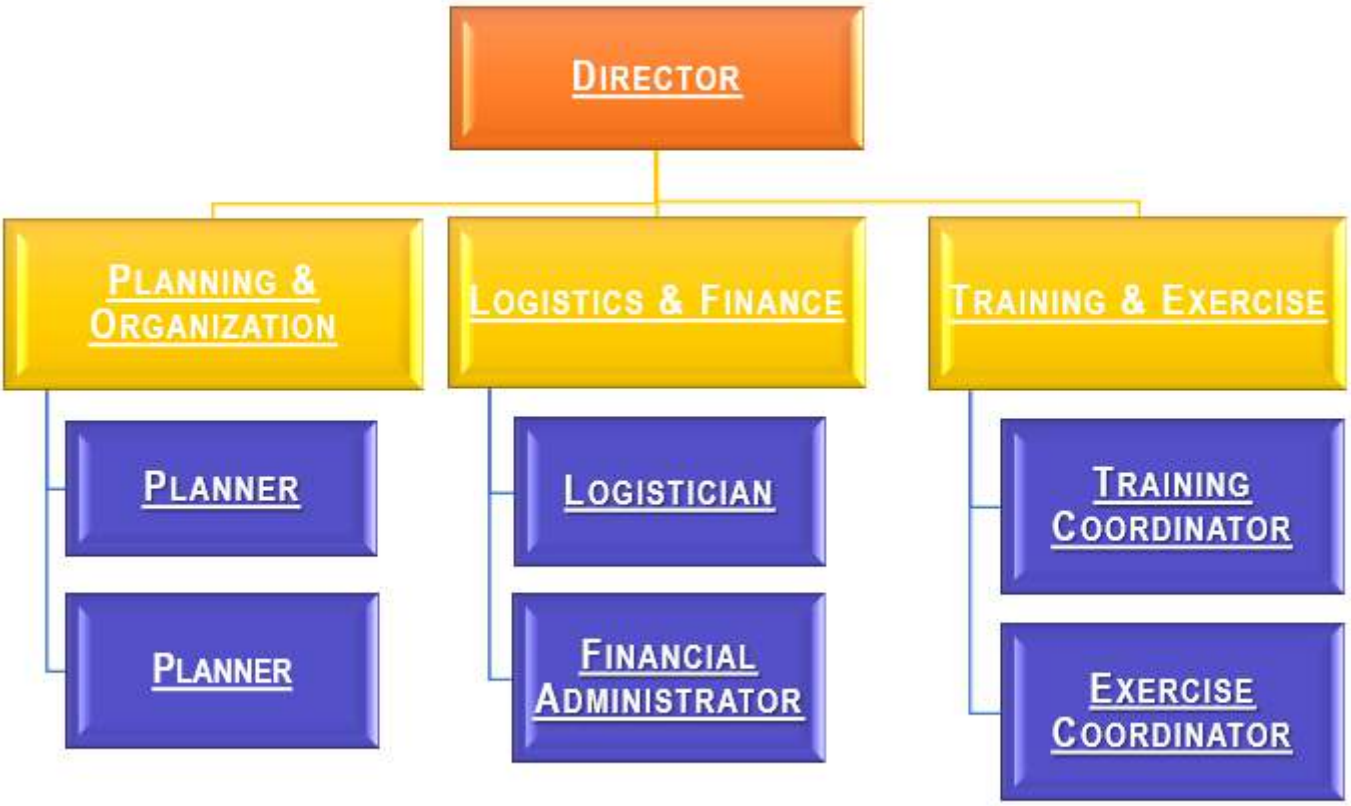
| Acronym | Definition |
|---|---|
| AARs | After Action Reports |
| CAD | Computer-Aided Dispatch |
| CBRNE | Chemical, Biological, Radiological, Nuclear, Explosive |
| CCA | Complex Coordinated Attack |
| C-TECC | Committee for Tactical Emergency Casualty Care |
| DFAN | Disabilities, Access, and Functional Needs |
| 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 |

| Acronym | Definition |
|---|---|
| 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 |
| MCMRC | Montgomery County Medical Reseve Corp |
| 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 and Homeland Security |
| MDERS | Maryland-National Capital Region Emergency Response System |
| MD-NCR | Maryland-National Capital Region (Montgomery & Prince George's Counties) |

| Acronym | Definition |
|---|---|
| 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 |
| PATC | Public Access Trauma Care |
| PH | Public Health |
| PGFD | Prince George's County Fire/EMS Department |
| PGMRC | Prince George's County Medical Reserve Corp |
| PGPD | Prince George's County Police Department |
| PGPH | Prince George's County Public Health Department |
| POETEE | Planning, Organization, Equipping, Training, Exercising, Evaluating |
| ProQA | Quality Assurance (FirstWatch software module) |
| RESF | Regional Emergency Support Function |

| Acronym | Definition |
|---|---|
| RMS | Records Management System |
| SAA | State Administrative Agency |
| SOD | Special Operations Division |
| SMART | Specific, Measurable, Achievable, Realistic, Time-bound |
| 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 |
| TTBX | Tabletop-in-a-Box Exercise Program |
| UAS | Unmanned Aerial System |
| sUAS | Small Unmanned Aerial System |
| UASI | Urban Area Security Initiative |

# ORGANIZATIONAL CHART



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| Category | Expense |
|---|---|
| **Administrative** | |
| Communications | $19,631 |
| Computer Equipment & Peripherals | $11,712 |
| Disability and Access Functional Needs (DAFN) Coordinator | $142,622 |
| Management & Administrative Costs (MIEMSS) | $21,617 |
| Meeting Support | $3,744 |
| Office & Storage Supplies | $10,069 |
| Office Equipment Rental (Copier) | $4,016 |
| Office Furniture Rent | $16,760 |
| Office Space Cleaning | $2,250 |
| Office Space Rent | $42,756 |
| MDERS Staff | $1,369,110 |
| Postage | $347 |
| Printing | $1,326 |

| Category | Expense |
|---|---|
| Software | $44,357 |
| Staff Development / Training | $2,066 |
| Staff Local Travel (mileage, parking) | $2,514 |
| Subscriptions (EBSCO) | $8,750 |
| Website Maintenance | $9,250 |
| **Total Administrative** | **$1,712,897** |
| ***Projects*** | |
| Emergency Management Response Capability Enhancement (MCOEMHS) | $76,929 |
| Emergency Management Response Capability Enhancement (MCOEMHS) | $59,840 |
| FirstWatch System Monitoring (Continuation) (PGFD) | $314,500 |
| Incident Command Support - Montgomery County (MCOEMHS) | $76,346 |
| Law Enforcement Special Operations Equipment (MCOEMHS) | $129,758 |
| Law Enforcement Special Operations Equipment (PGPD) | $181,971 |

| Category | Expense |
|---|---|
| Mass Casualty Incident Response Support (PGFD) | $46,999 |
| Medical Resource Officer (PG Health Dept) | $98,396 |
| Medical Resource Officers (MCOEMHS) | $105,104 |
| PATC Equipment and Training (MIEMSS) | $14,177 |
| Public Access Bleeding Control (MIEMSS) | $128,500 |
| Tactical Emergency Casualty Care Kits (MCOEMHS) | $45,816 |
| Tactical Emergency Medical Services (PGFD) | $123,004 |
| Training & Exercise Continuation (MIEMSS) | $314,602 |
| Unmanned Aerial Systems (UAS) Capability (MCOEMHS) | $73,634 |
| Unmanned Aerial Systems (UAS) Capability (PGPD) | $59,480 |
| **Total Projects** | $1,849,057 |
| **TOTAL FY18 UASI FUNDS** | $3,561,954 |

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