



MICHIGAN MABAS

MUTUAL AID BOX ALARM SYSTEM

Michigan Task Force 1

ANNUAL REPORT

FY-2021



MI-TF1 search team member surveys a heavily damaged structure in St. James Parish, LA during the team's Hurricane Ida deployment.



Task Force Rescue Specialists prepare to remove a simulated victim from a second story window after stabilizing the structure during MI-TF1's annual ORE at the Air National Guard CRTC, Alpena.

TABLE OF CONTENTS

TABLE OF CONTENTS	2
FISCAL YEAR 2021 QUICK FACTS	3
INTRODUCTION	4
EXECUTIVE SUMMARY	5
MI-TF1 FY21 MAJOR ACCOMPLISHMENTS	6 - 10
MICHIGAN TASK FORCE 1 (MI-TF1)	11
MICHIGAN MUTUAL AID BOX ALARM SYSTEM (MI-MABAS)	12
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS - GRANT No FAS 21-01	13
STATEMENT of PUBLIC PURPOSE	13
STATEMENT OF WORK	13
DETAIL OF PROPOSED EXPENDITURES	13
MI-TF1 PERFORMANCE METRICS	14
PROJECT IMPLEMENTATION	15
MI-TF1 FY21 FINANCIAL SUMMARY	16
MI-TF1 USAR TYPE III ORGANIZATIONAL CHART	17
CONTACT INFORMATION	18

FISCAL YEAR 2021 QUICK FACTS

- MI-MABAS and MI-TF1 Fire Service Webinar was attended by over 190 fire, EMS and Emergency Management chiefs, directors, and front-line workers from Marquette to Monroe County. Topics included an Operational Readiness Update, the importance of Mission Ready Packages, Fire Division and Special Operations Team Preparedness, Michigan small Unmanned Aircraft System capabilities, Midland Flood After Action Report and concluded with an update from State Fire Marshall Kevin Sehlmeyer.
- MI-TF1 responded as a Type 3 USAR Task Force, with Water Rescue Capability, to an EMAC request from the state of Louisiana after Hurricane Ida's destructive force brought heartbreaking devastation to that state's coastal region.
- MI-TF1 developed a comprehensive communication plan for Intrastate responses that will lead to more efficient team communications, while creating a seamless hardware platform intended to enhance interoperability with response agencies across that state who are part of the statewide MPSCS 800 radio system.
- MI-TF1 exercised 104 personnel during a 3-day Operational Readiness Exercise (ORE), held at the Air National Guard Combat Readiness Training Center (CRTC) in Alpena, MI. This exercise focused on emergent operations in a disaster zone, incorporating all aspects of mobility, logistical support, communications, and command/control of Search & Rescue operations for multiple operational periods.



MI-TF1 performed wide area search operations, along with providing real-time Primary Damage Assessment for structures and identified critical infrastructure for local and state Emergency Managers during its deployment to Hurricane Ida.

INTRODUCTION

Michigan Task Force 1 (MI-TF1) is Michigan’s only Urban Search and Rescue (USAR) resource capable of responding to any community that is overwhelmed by an emergency. MI-TF1’s capability consists of the most highly trained emergency service personnel capable of self-sufficient response up to 10-days to All-Hazard missions.

MI-TF1 is comprised of 150 members from across the state who volunteer or are sponsored by one of 46 fire departments/public safety agencies. This includes an increase in both personnel and sponsoring agencies from FY20 while most organizations actually experienced a decrease in participation. We are proud to partnership with the following agencies:

Addison Twp	Flint Twp	Rochester
Auburn Hills	Grand Rapids	Romulus
Berkley	Green Oak Twp	Royal Oak
Bloomfield Twp	Hartland Area FD	Shelby Twp
Brighton Area FD	Howell Area FD	Southfield
Canton Twp	Independence Twp	St. Clair Shores
Chelsea Fire Authority	Midland	Sterling Heights
Chesterfield Twp	Mount Morris	Summit Township
Clinton Township	North Oakland County	Village of Holly
Commerce Twp	North Ottawa EMS	Walker
Dearborn Heights	Northfield Twp	Warren
Delhi Twp	Oakland Twp	Washington Twp
Detroit	Orion Twp	Waterford Twp
Dexter Area FD	Plymouth Twp	West Bloomfield
East Lansing	Redford Twp	Westland
Farmington Hills	Emergent Health	

Over \$11.4 million has been invested in developing the USAR capabilities since the creation of MI-TF1 in 2009 from Homeland Security Grant Funding, and now State of Michigan Appropriations. These capabilities are used daily at the regional, county, and local level through services provided by our local partners.

EXECUTIVE SUMMARY

MI-MABAS and MI-TF1 continues to face challenges, problem solve issues and make adjustments in our ever-changing environment. We have thrived in our expanding roll of providing leadership and guidance to the Michigan Fire Service. Not only has the current public health emergency challenged the way everyone conducts their business but the number and nature of catastrophic events facing our communities is becoming more frequent.

MI-MABAS and MI-TF1 has instituted many learning and training opportunities by producing USAR, special operations, and dispatch videos, in addition to providing self-guided training for first responders. Our increased networking and broad information sharing have allowed MI-MABAS to become the fire-based resource consulted for the Michigan Critical Incident Management System resource tracking and Michigan's All Hazard Incident Management Team Work Group initiatives.

MI-TF1 continues to maintain Type III FEMA credentialing with many updates to the Urban Search and Rescue capability and training requirements. FEMA is adjusting and adding requirements to align with the threats facing our nation as everyone experiences gaps in their work force. This makes MI-TF1's ability to increase membership and training levels during this time very significant.

As we continue to maintain our operational readiness, the types of incidents we respond to has continued to evolve. The Surfside Condo collapse in Miami started serious conversations with the City of Detroit to preplan for a similar unanticipated event in Michigan. Michigan has experienced smaller but just as potentially disastrous events with the recent Flat Rock Hazmat incident, which threatened an entire community, and the trench fatality when a DTE worker was electrocuted in Howell. MI-TF1 and MI-MABAS personnel responded to both events.

The Brigadoon cottage fire on Mackinaw Island and the Superior Cedar Products fatal lumber fire in Menominee showed the need for a structured mutual aid box alarm system when local resources are overwhelmed. We also continue to experience an increased number of flooding and wide area search incidents, both of which require a strong incident command system to protect the community and responders.

The most efficient way to protect the community and responders during these events is to increase the number of resources and the training level of personnel who respond to these events. MI-MABAS has made substantial progress on educating community and fire service leaders on the importance of validating special operation teams. This has led to our first validations being completed this year, with more scheduled for the first quarter of FY22.

It is hard to quantify the value of MI-MABAS providing a consistent, proven, operational platform for the fire service, but it is very clear we have improved capabilities when communities can work seamlessly together.

MI-TF1 FY21 MAJOR ACCOMPLISHMENTS

- *Developed additional Mission Ready Packages (MRPs) to support local Incident Commanders*

MI-TF1 leadership continued to expand the original concept of MRPs by further developing mission specific single resource packages that combine both trained and the needed equipment from Task Force's expansive response capabilities. The quick response MRPs are both modular and scalable, based on the mission needs, and can be deployed anywhere in the state.

The initial four (4) MRPs developed in FY20 have now been bolstered with additional packages that include:

- Canine and Technical Search
- Medical Support
- Logistical Support
- Technical Rescue Support
- Hazmat Support
- Incident Technical Support

The Task Force has worked to catalogue the developed MRPs with the MABAS Red Center, who local Incident Commanders can contact when these single resource packages are needed. Educating stakeholders and partnering with the Michigan State Police and its District Coordinators will ensure the concept and response of MI-TF1 MRPs becomes standardized across the state.



Whether providing focused advanced medical support during an event, or additional technical rescue personnel to bolster the number of trained responders needed on an incident, MI-TF1 single resource Mission Ready Packages (MRPs) are a force multiplier for Incident Commanders.

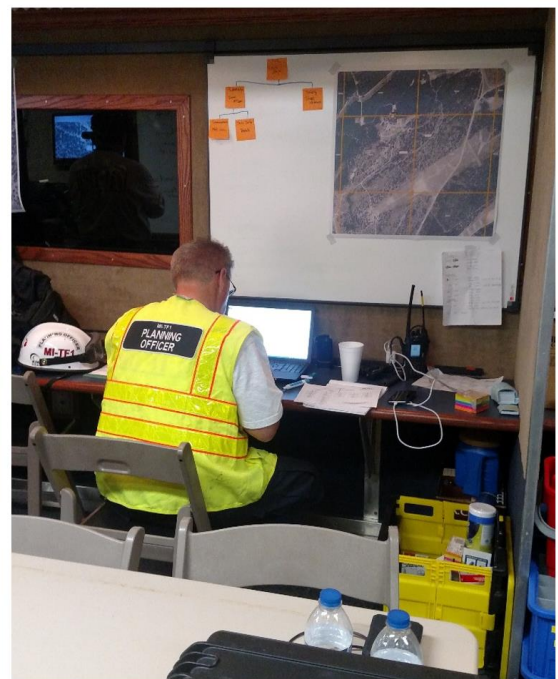
- Developed comprehensive MPSCS 800 MHz radio interoperability Communications Plan

As the Task Force continued to develop single resource Mission Ready Packages for in-state responses, the need for more interoperability in the team’s communication plan became a primary focus in FY21. Improving the ability to communicate within the state’s 800 MHz radio system significantly impacts the team’s operational effectiveness while operating under the direction of local Incident Commanders or while working with a wide range of response agencies during a response.

MI-TF1 enhanced its 800 MHz radio capability by adding over sixty (60) portable radios, along with the needed support equipment, to its already existing communications cache. This upgrade in radios compliments the team’s current capabilities in UHF, aircraft, marine, and satellite communications.



MI-TF1’s increased 800 MHz radio capability will allow better Interoperability with other response agencies during in-state responses and improve team communications over larger geographical areas.



- Operational Readiness Exercise – Air National Guard Combat Readiness Training Center (CRTC) in Alpena, MI

MI-TF1 exercised 104 personnel during its annual Operational Readiness Exercise at the CRTC in Alpena, MI. The three-day exercise focused on the member check-in process, mobilization, convoy elements, Base of Operations (BoO) set up, and ultimately focusing on extended Search and Rescue operations. Mock scenarios were established throughout different locations at the facility that would test the skills of our members and their ability to problem solve in stressful situations.

Our members worked through multiple 12-hour operational periods, simulating real-world search and rescue operations. The developed scenarios incorporated search objectives for

both our Canine Specialists and Technical Search Specialists, along with complicated victim entrapments within collapsed or compromised structures which required stabilization prior to entry. Additional objectives were created to test a Squad's ability to safely develop and execute a rope rescue operation with minimal equipment. Imbedded scenarios were executed in both day and night operations.

Additional objectives focused on Wide Area Search (WAS) and Primary Damage Assessment (PDA), utilizing buildings through the Air National Guard base to simulate an impacted urban area. Pictures of damage and other hazardous assessment information was printed and placed on each structure as part of this exercise. Small WAS teams were created and utilized both GPS units and iPads for capturing critical PDA data in MSP's Survey123 application. The captured data was then uploaded to the state's ArcGIS dashboard, giving a comprehensive look at the number and type of structures, level of damage, human interactions/humanitarian needs, identified hazardous conditions, and emergent needs recognized during the WAS operation.



MI-TF1's annual ORE put member skills to the test and focused on teamwork, problem solving, and the ability to adapt to dynamic rescue situations.



- *MI-TF1 deployment to the State of Louisiana to assist with Hurricane Ida response*

On Monday, August 30, MI-TF1 deployed on an EMAC request for a Type 3 USAR Task Force (with Water Rescue Capability) to Louisiana in response to Hurricane Ida. The 43 personnel traveled over 1,100 miles and arrived at the team's first staging location in West Baton Rouge on the evening of August 31.

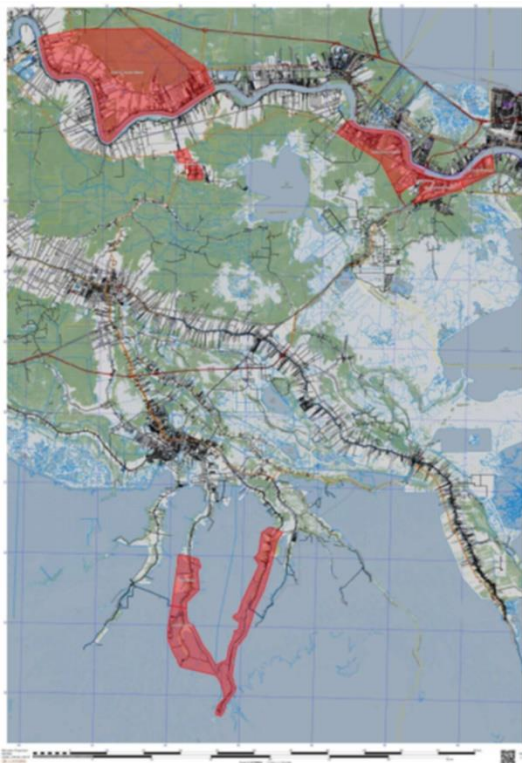
The Task Force conducted missions during four operational periods from September 1st through September 4th. During these operational periods, MI-TF1 conducted hasty/recon and primary searches across three parishes, covering over 125 square miles of various urban

and rural settings. The team’s area of operation was mainly in the parishes of Terrebonne, St. James, and St. Charles.

Additionally, MI-TF1 was tasked with Primary Damage Assessment in these areas, assessing over 9,000 structures, with over 800 recorded human interactions/citizen assists. MI-TF1 recorded the structural damage assessments and the team’s assistance to residents through the Survey123 application, utilizing GPS units and iPads to collect the data. This data was then reported up to the Louisiana Emergency Management and supporting IMT.

Michigan Task Force 1 traveled overall 3,000 miles throughout the deployment, worked an average of 15.7 hours a day, and sustained ZERO documented injuries.

	9/1/2021	9/2/2021	9/3/2021	9/4/2021	Total
Assessed Structures	1088	2948	3613	1088	9085
Minor	65	185	232	119	601
Major	35	87	80	40	242
Destroyed	8	20	29	15	72
HazMat	3	12	23	5	43
Assistance	1	6	115	48	170
Animal	2	2	12	0	16
Other	22	12	18	6	58



MI-TF1 personnel covered approximately 125 sq. miles of urban and rural areas during its hasty search/recon and Primary Damage Assessment operations. Team members provided much needed humanitarian support by supplying families who were in need with MREs and water.

MI-TF1’s area of operation focused on the Parishes of Terrebonne, St. James, and St. Charles

MICHIGAN TASK FORCE 1

Michigan Task Force 1 (MI-TF1) is a fully credentialed National Incident Management System (NIMS) Type III Urban Search and Rescue (USAR) Task Force and Type I Swiftwater/Flood Rescue Team recognized by the Federal Emergency Management Agency (FEMA). MI-TF1's capability consists of one hundred fifty (150) of Michigan's most highly trained emergency service personnel, coupled with private partners that include structural engineers, physicians, canine handlers, crane operators, and more than 11 million dollars (\$11,400,000) of specialized equipment, vehicles and training.

MI-TF1 is deployable on an intrastate basis via the Michigan Emergency Management Assistance Compact (MEMAC), the Michigan Mutual Aid Box Alarm System (MABAS), or other mutual aid requests. MI-TF1 is also deployable on an interstate basis through an Emergency Management Assistance Compact (EMAC) request. MI-TF1 is Michigan's critical asset that responds to local, state, or federal natural and man-made disasters by providing search and rescue, medical support, damage assessment, and assistance in the coordination of relief for First Responders.



Deployment of MI-TF1's NIMS Type 3 USAR Task Force to Hurricane Ida and the team's first Base of Operations in the parish of West Baton Rouge. Thank you to the West Baton Rouge Sheriff's Posse for their southern hospitality and accommodations.

MICHIGAN MUTUAL AID BOX ALARM SYSTEM

The mission of MI-MABAS is to coordinate the effective and efficient intrastate and interstate mobilization and deployment of fire resources to an incident that overwhelm local resources and requires additional assets and personnel. As a result, MI-MABAS was created, pursuant to the Michigan Constitution 1963, Article VII, Section 28, and the Michigan Urban Cooperation Act, of 1967, 1967 PA 7, MCL 124.501, *et seq.*

Currently, there are 35 MABAS Divisions in Michigan with over 600-member fire departments, an Urban Search and Rescue Task Force, Technical Rescue Strike Teams, Hazardous Material Response Teams, and an Incident Management Team. Michigan joins Illinois, Indiana, Wisconsin, and the Minnesota MABAS programs.

Executive Board –Based on the organization’s bylaws, the Executive Board is comprised of division representatives and stakeholders that are tasked with system governance, establishing system goals, policies, and resource development for response to statewide emergencies and disasters.

MI-MABAS Communications and Dispatch Committee – This committee is responsible for developing policy, training and exercises for Division Dispatch Centers and the Red Center. The committee is represented from eight Division Dispatch Centers, the Red Center, MI-MABAS Communications Specialist, and Exec Director.

Plans Coordinators – The Plan Coordinators represent each division and are responsible for establishing strategies and tactics to implement the organizational goals at the division level. The Plan Coordinators also organize training and exercises for their respective division.



DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS GRANT NO. FAS 21-01

STATEMENT of PURPOSE

The purpose of this Agreement is to provide funding to support the Michigan Urban Search and Rescue Task Force efforts as outlined in the Statement of Work.

STATEMENT of WORK

Michigan Task Force 1 agrees to undertake, perform, and complete the following eight areas:

- Maintain FEMA Urban Search and Rescue Type III Task Force Capabilities
- Maintain MI-TF1 Single Resource Mission Ready Packages
- Maintain and Develop Statewide Partnerships
- Communicate MI-TF1's Capabilities to Michigan's first response community
- Validate Michigan Fire Service Special Operation Capabilities
- Create Statewide Notification Process for Fire Special Operations Resources
- Provide local and regional fire departments with assistance during incidents
- Engage local USAR leadership in quarterly meetings and participate in local exercises

DETAIL of PROPOSED EXPENDITURES

The funds distributed from Department of Treasury, through the LARA grant, are designated into four categories:

- Management/Administration provide the organizational structure based on Federal Emergency Management Agency (FEMA) national standards.
- Office costs provide the warehouse and office space, insurance and liability coverage, record management and communication subscriptions.
- Operating costs provide equipment and fleet maintenance, capital purchases and deployment costs.
- Training and exercise costs provide MI-TF1 personnel with the capability to operate safely in a high risk but low frequency disaster environment.

MI-TF1 FY21 PERFORMANCE METRICS

MAINTAIN FEMA URBAN SEARCH AND RESCUE III TASK FORCE CAPABILITIES

MI-TF1 increased the number of *Level 1* deployable members from 82 to 89 with 15 more members very close. This is a major accomplishment considering the training requirements and number of retirements and separation. A total of 126 trainings, exercises, and events were sponsored by MI-TF1 members to maintain operational readiness.

MAINTAIN MI-TF1 SINGLE RESOURCE MISSION READY PACKAGES (MRP)

MI-TF1 not only updated their MRP Handbook but also updated the equipment load and deployments plans to make the MI-TF1 special operations resources more responsive to the threats and risks to the residents of Michigan. MI-MABAS also continues to improve the mobilization of fire-based MRP packages available to any community in a quick and efficient manner.

MAINTAIN and DEVELOP STATEWIDE PARTNERSHIPS

MI-MABAS and MI-TF1 met in person or virtually with Michigan State Police Emergency Homeland Security Division (6), MSP Hazmat Workgroup (4), MSP Incident Management Team Workgroup (3), Southeast Michigan Association of Fire Chiefs (3), Western Michigan Association of Fire Chiefs (3), Northern Chiefs Association of Fire Chiefs (2), Michigan Association of Fire Chiefs (2), Michigan Air National Guard (4), Michigan Army National Guard (3) and Great Lakes MABAS Consortium (12) for a total of 42 formal meetings plus weekly correspondence.

COMMUNICATE MI-TF1'S CAPABILITIES to MICHIGAN'S FIRST RESPONSE COMMUNITY

MI-TF1 capabilities have been communicated through our Spring Webinar, E-Board meetings (6), Plans Coordinators (5), Division Fire Chiefs Meetings (24), Interoperability Communications Conference, Instructor Coordinator Conference, Legislative Coalition Conference, Michigan Fire Inspectors Society and the City of Detroit (4) for a total of 45 formal presentations.

VALIDATE MICHIGAN FIRE SERVICE SPECIAL OPERATIONS CAPABILITIES

The Washtenaw County Technical Rescue Team was validated in structural collapse, trench, confined space and ropes in June. Oakland County Tech Rescue, Western Wayne and Battle Creek Hazmat are scheduled to be evaluated in Q1 FY22.

CREATE STATEWIDE NOTIFICATION PROCESS FOR FIRE SPECIAL OPERATIONS RESOURCES

MI-MABAS Red Center has created the MI-MABAS Special Operations Team activation policy. The RED Center meets quarterly to develop policy, training, and exercise capabilities with the eight division dispatch centers. MI-MABAS conducts bi-monthly alert notifications to all division reps and MI-TF1 conducts monthly notifications to its members.

PROJECT IMPLEMENTATION

PROJECT IMPLEMENTATION

FY21 continued to feel the effects of our Public Health Emergency with delayed or cancelled trainings, participation limits, local and state restrictions while the need to stay prepared and respond to catastrophic events remained present. Deviations to the proposed training budget required one budget adjustments.

ACCOMPLISHMENTS AND CHALLENGES

MI-MABAS and MI-TF1 made significant progress in standardizing the fire based special operations capabilities throughout the State of Michigan. We were able to fully validate our first Technical Rescue Team in Washtenaw County while granting several provisional validations to hazmat and tech rescue that only need operational evaluations. This significantly improves Michigan's USAR capabilities.

COORDINATED EFFORTS

MI-MABAS and MI-TF1 continues to partner with the State Fire Marshall, Michigan Emergency Management Coordinators, Michigan State Police, County and State agencies, Great Lake State MABAS organizations, Coastal Search and Rescue Coordinators and National SUSAR and FEMA Task organizations and have started to work with various Michigan Air National Guard groups.

IMPACTS OF THE PROJECT

The impact of the project not only continues to enhance knowledge, skills and abilities utilized by fire departments and dispatch centers during local responses. MI-MABAS and MI-TF1 assisted MSP to categorize resources in the Michigan Critical Incident Management System (MI-CIMS) and create a map layer of fire resources on MSP ARC-GIS platform.

FINANCIAL EXPENDITURES

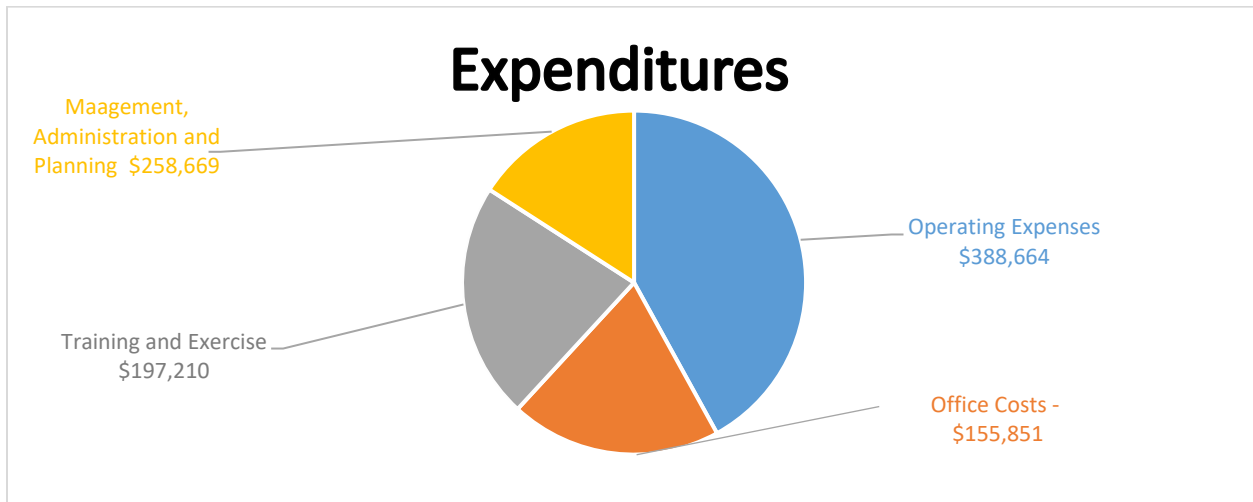
All FY21 financial expenditures were paid with grant money, private donations or deployment reimbursement(s) for personnel, equipment, and material consumables.

FY 22 Goals & Objectives - NEXT STEPS

The plan moving forward is to continue maintaining and enhancing the FY21 eight-performance metrics in addition to upgrading Urban Search and Rescue Equipment:

- Repair or replace communication and sheltering equipment and vehicles.
- Upgrade incident command capabilities for faster deployment and accountability
- Purchase new equipment to enhance overall USAR capabilities

FY21 FINANCIAL SUMMARY



MANAGEMENT, ADMINISTRATION and PLANNING - \$258,669

Administrative costs provide the organizational structure and personnel support to achieve Urban Search and Rescue Task Force Type III according to FEMA standards.

OPERATING EXPENSES - \$388,664

Operating costs provide equipment and fleet maintenance, capital purchases and deployment costs.

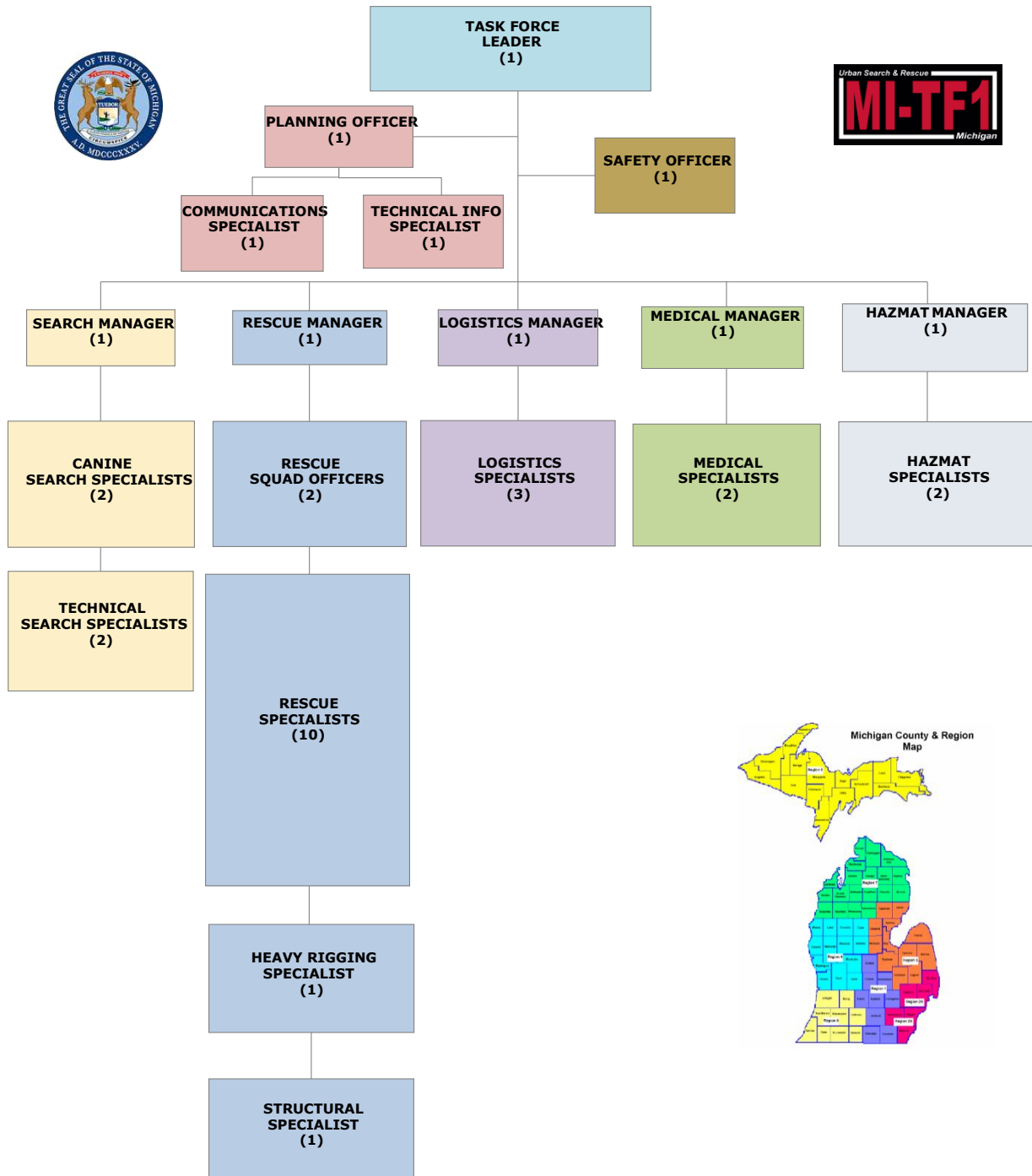
TRAINING and EXERCISES – \$197,210

Training and exercise costs provide MI-TF1 personnel with the capability to operate safely in a high risk but low frequency disaster environment.

OFFICE COSTS - \$155,851

Office costs provide the warehouse and office space, insurance and liability coverage, record management and communication subscriptions.

MICHIGAN USAR TYPE III TASK FORCE



CONTACT INFORMATION

DAVE MCINTYRE
MI-TF1 PROGRAM DIRECTOR

CHIEF PAT PARKER
SPECIAL OPERATIONS WORK
GROUP CHAIRPERSON

CHIEF BRIAN BALL
PRESIDENT/MI-MABAS

Tel: 586-615-5099
dmcintyre@michiganmabas.us

Tel: 231-632-0039
pparker@metrofire.org

Tel: 517-694-3327
President@Michiganmabas.us

MICHIGAN MUTUAL AID BOX ALARM SYSTEM

5967 Bedford Place
Ann Arbor, MI 48105
www.mimabas.org

MICHIGAN MABAS RED CENTER (Emergency Dispatch)

(734) 477-6400