

CITY OF MADISON

FIRE DEPARTMENT



July 19, 2019:

MFD fights a massive fire after an explosion at an MG&E substation on E. Main Street downtown. Not fifteen minutes later, a second fire at another substation near East Campus Mall was reported. The fires caused power outages and loss of traffic lights throughout the isthmus on one of the hottest days of the year, prompting Governor Tony Evers to declare a state of emergency for the City and Dane County.



FIRE



EMS



EDUCATION
& PREVENTION

2019

ANNUAL
REPORT

FIRE ADMINISTRATION
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A MESSAGE FROM FIRE CHIEF STEVEN A. DAVIS

Welcome to the City of Madison Fire Department's 2019 Annual Report



The year brought new challenges and ushered in some changes and improvements for the City of Madison Fire Department. The dedicated members of our diverse organization worked tirelessly to handle any issue that was in front of us—*over 33,000 times in 2019*—with skill, safety, and professionalism.

Sadly, the MFD suffered the loss of another of our members in 2019. On June 9, Apparatus Engineer Todd Mahoney was competing in the swim portion of the Ironman Triathlon in Madison when he was pulled from Lake Monona after being found unresponsive in the water. Tragically, he passed away two days later, on June 11, leaving behind his wife and three young sons. This occurred only 14 months after the line-of-duty death of Firefighter/Paramedic Rick

Garner, so it has been a very hard time for our MFD family. We are deeply thankful for the MFD Peer Support Team and the City's Employee Assistance Program, as well as the support of other agencies and fire departments around the state who have helped us as we continue to heal from these tragic losses.

Our department strives to remain ahead of the curve on training and innovations. After the flash flooding that occurred in the fall of 2018, the department responded by getting 12 of our members trained in swift water rescue. By the end of spring 2020 we will have another 10 members certified in the latest and greatest swift water rescue techniques. These highly-trained members are able to respond during flash floods with state-of-the-art equipment and procedures, keeping our community even safer as we learn to adapt to the ever-changing environment.

The MFD protected the city from certain tragedy during one of the more challenging events of 2019. At approximately 7:40 a.m. on July 19, 2019 a major electrical incident occurred within the Madison Gas and Electric property. An American Transmission Corporation transformer exploded, causing a significant fire and shutting down traffic signals and knocking out power to about 13,000 homes and businesses in the downtown area—on one of the hottest days of the year. A few minutes later, a second fire at another substation was reported. The department worked quickly to mitigate the situation, shutting down the system and putting out the fires in about 30 minutes. With the damage control kept to a minimum, MG&E was able to restore power to the isthmus area of the city in less than 8 hours—especially important as the day's temperature reached 93° with high humidity. Although there were no reported injuries, the effects of this incident were felt for months to come within city and state infrastructure. Had the department not responded as quickly as we did, the loss would have been much greater.

This unique incident led to the department becoming more educated on the effects of AFFF (aqueous film-forming) firefighting foam on the environment, and in December the MFD made the choice to switch to a fluorine-free firefighting foam. Madison was one of the first departments in the state to make the switch, and our community and environment will benefit from this decision for years to come.

I hope you enjoy reading the pages that follow. As you will see, there is an incredible amount of work that your fire department does each and every day to ensure that Madison is a safe place to work, live, and play.



THE COMPELLING CASE FOR FIRE SPRINKLERS

by Fire Marshal Ed Ruckriegel

For as long as anyone reading this report can remember, the Madison Fire Department, along with the fire service nationwide, has dedicated resources to fire safety programs and fire safety education. The MFD has installed countless smoke alarms. We have spent thousands of hours in front of school age children, young adults, and seniors talking about home fire safety and fire prevention. Our efforts drove down the number of fire fatalities toward the end of the twentieth century. However, the average number of fire fatalities has increased over the last 12 years. We need a different approach to stopping fires and saving lives.

The primary cause for the upward trend in fire fatalities is the change in the fuel load (the amount of flammable material) and the types of material in our homes and businesses. Today our buildings contain more plastics and synthetic materials that generate much more heat and toxic fumes when burning. Fires today burn about 15 times hotter than 20 years ago. Additionally, newer homes often have more open layouts—allowing smoke and flames to spread much more quickly. A hotter, more toxic, and faster-moving fire means that today, the time to evacuate is less than three minutes. Click this link to see video of a side-by-side sprinkler vs. no sprinkler demonstration: <https://youtu.be/Vlx1SMmLyJc>



In 2018, the year with the most comprehensive fire data, 3,655 people died in fires in the United States. Seventy-four percent of those fatalities occurred in the home. We can significantly reduce those numbers. Fire sprinklers in homes, apartments, and commercial buildings are the only way we will drive down fire fatalities.

- **Fire sprinklers save lives.** Sprinklers reduce the risk of fire-related death by 80%. When it comes to fire the best water is the fastest water—and the fastest water comes from a fire sprinkler.
- **Fire sprinklers reduce harm to firefighters.** Fire service personnel are 81% more likely to be injured in a non-sprinklered residence. In addition, sprinklers reduce firefighters' cancer risk by reducing their exposure to carcinogens and toxic fumes.
- **Fire sprinklers save property and buildings.** Sprinklers cut the average property loss by 70%. In Scottsdale, Arizona, a 15-year study of home fire sprinklers showed that the average loss per sprinklered incident was \$2,166 compared to more than \$45,000 for unsprinklered homes.
- **Fire sprinklers save money** by reducing some construction costs. In addition, having a home sprinkler system can significantly reduce your homeowner's insurance premium.
- **Fire sprinklers protect the environment** through reduced use of water and reduced air and water pollution, and fewer contaminants entering the soil and water supply. In addition, less trash is sent to landfills after a fire.

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THE COMPELLING CASE FOR FIRE SPRINKLERS

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Over the coming weeks, months, and years, the Madison Fire Department will work to advance the installation of fire sprinklers. We hope to get residents and visitors to start asking for fire sprinklers in their homes, places they work, and places they recreate. We believe that fire sprinklers are a vital feature for the home. Just as people choose security systems, central air, etc., fire sprinklers should be a top consideration. Look at it this way: Granite counter tops are installed in homes because homeowners asked for them and are willing to pay the premium price, not because they are required. We hope to convince people that fire sprinklers are more important than granite counter tops.

A Tale of Two Fires: Sprinklers vs. No Sprinklers

In the pages to come, you will read about two headline-making fires in Madison in 2019: **Sumo Steakhouse** on the east side and **Cowboy Jack's** on the west side.



April 5, 2019:

An overnight fire caused extensive damage to the kitchen. Fortunately, fire sprinklers kept the fire at bay, which otherwise would have spread to the rest of the building.

Damage estimated at \$250,000

Restaurant reopened just 2 months later.



September 18, 2019:

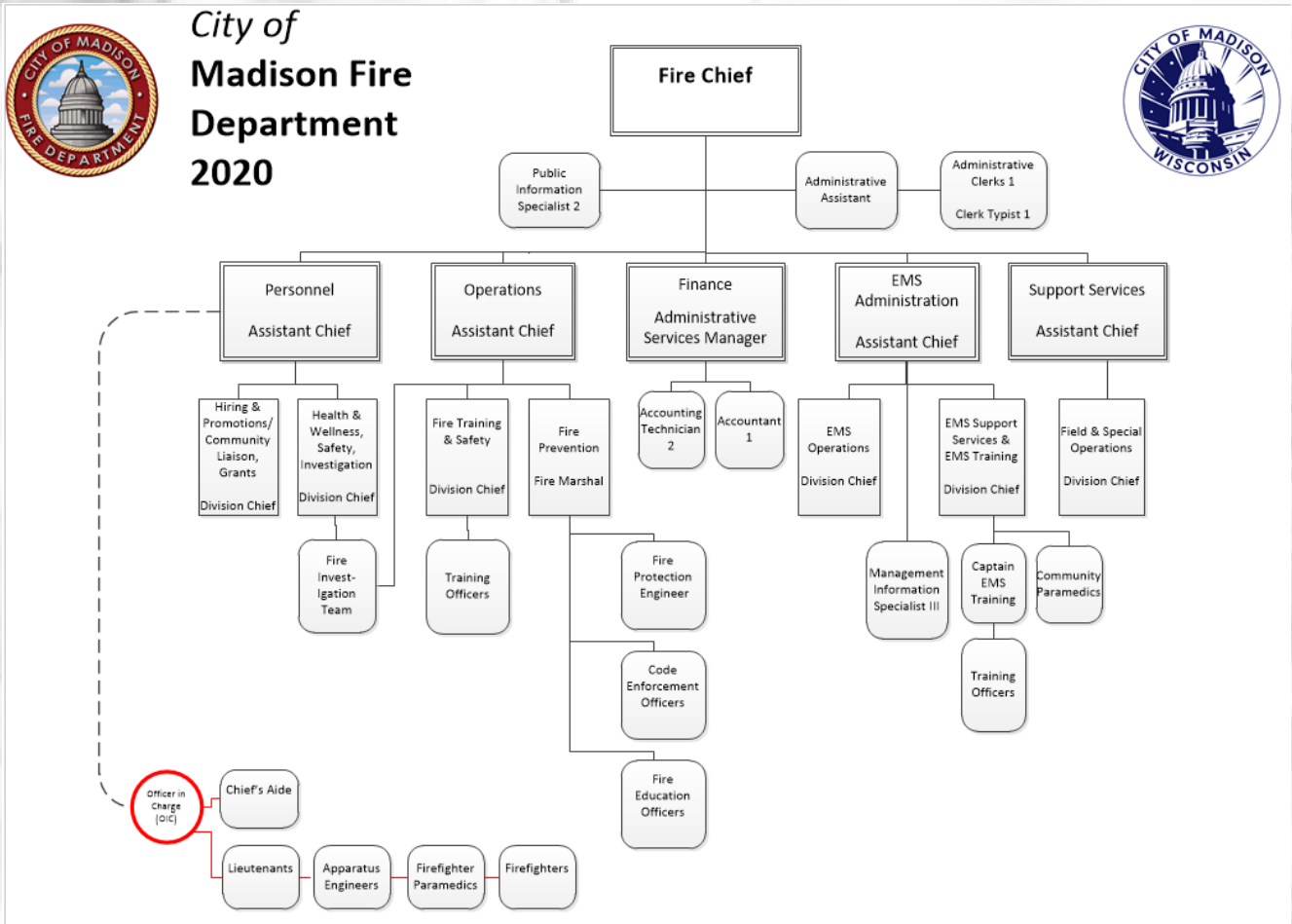
An overnight fire caused major damage to the entire building. There was no automatic fire sprinkler system installed. The building was declared a total loss.

Damage estimated at \$2.8 million.

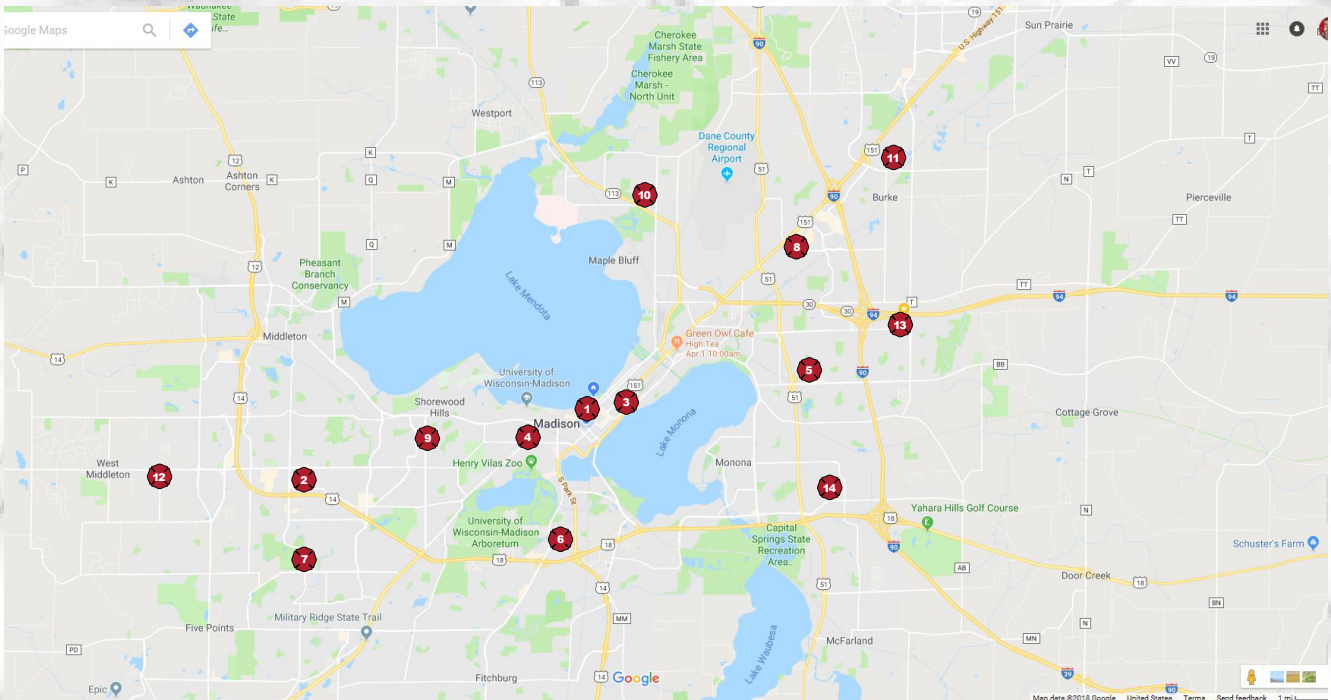
Restaurant did not re-open.

Fire Sprinklers Make All the Difference!

WHO WE ARE



FIRE STATIONS (hover mouse over station to see address).





WHO WE ARE

Comissioned Employees

Actual
Occupied
Positions*

Title

Chief	1
Assistant Chief	4
Division Chief	6
Captain	1
Lieutenant	66
Apparatus Engineer II (Chief's Aides)	3
Apparatus Engineer	59
Firefighter/Paramedic II	25
Firefighter/Paramedic	58
Firefighter	166

Civilian Employees

Actual
Occupied
Positions*

Title

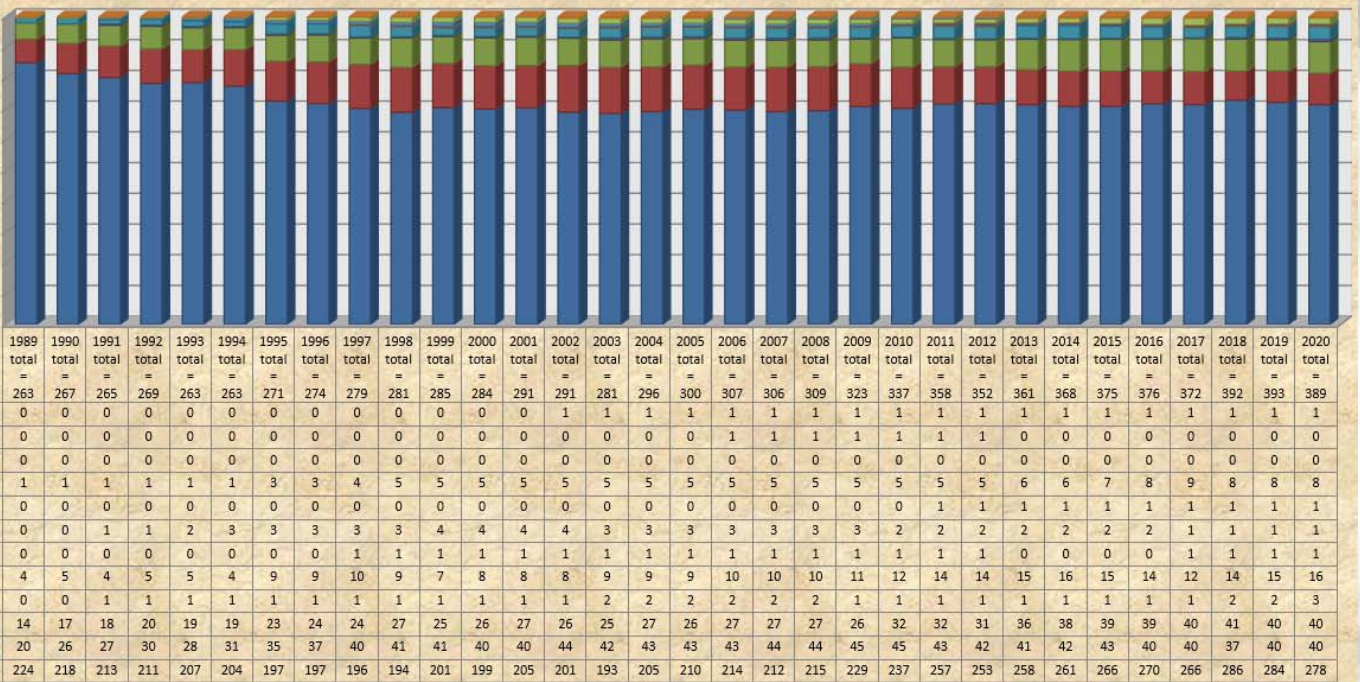
Administrative Services Manager	1
Administrative Assistant	1
Accountant	1
Account Tech	1
Administrative Clerk	4
Clerk Typist	1
Community Paramedic	1
Elevator Code Enforcement Officer	3
Fire Code Enforcement Officer	10
Fire Education Enforcement Officer	1
Fire Marshal	1
Fire Protection Engineer	1
Management Information Specialist	1
Public Information Officer	1

Total Commissioned: 389

Total Civilian: 28

**as of February 29, 2020*

**City of Madison Fire Department
Total Number of Firefighters Employed as of January 1st of Each Year**



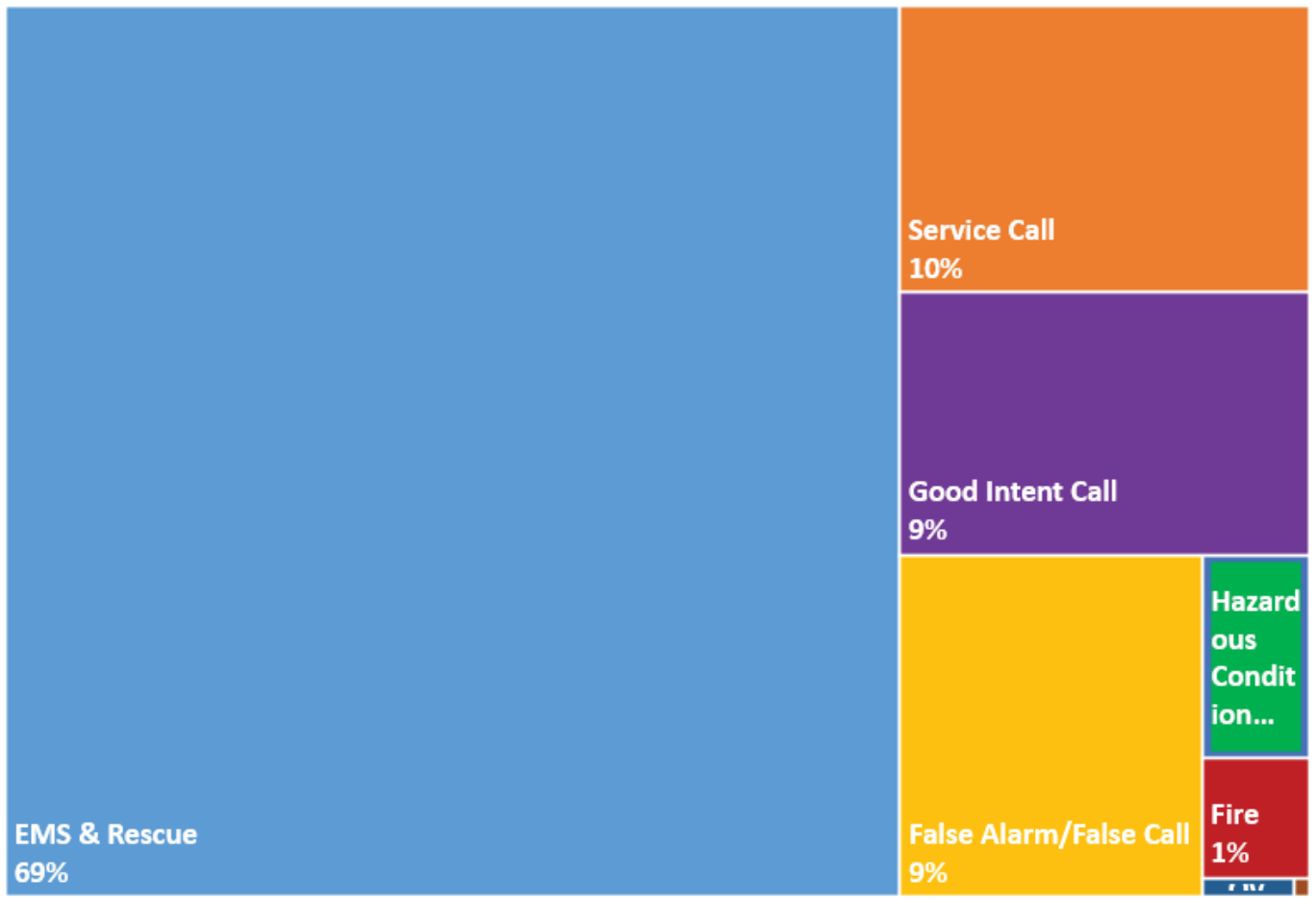


SERVICES PROVIDED

The Madison Fire Department (MFD) operates out of 14 Fire Stations throughout the City of Madison with a staffing level of 86 on duty each day. There are 12 Engine companies, 5 Ladder companies, 8 Paramedic units, and 1 Command vehicle in service every day to serve the residents and visitors to the City of Madison.

In 2019, MFD responded to 33,337 calls for service. The largest single type of call, by far, was for Emergency Medical Services (EMS) & Rescue, accounting for 69% of call volume with 22,865 calls.

Total Number of Calls in 2019: 33,337



Overpressure/Explosive (no fire): 0.2%

Severe Weather: <.1%



OPERATIONS

Emergency Responses

As with any emergency, response time is critical. The addition of Station 14 has helped improve response times in the southeast part of the city. Along with the addition of priority dispatching in recent years for fire, emergency medical services, and other rescues and emergencies, our department continues in our plans to reduce overall response times, saving lives and property.

MG & E Transformer Fire

On the morning of July 19, MFD responded to an explosion and fires at two MG&E substations at E. Main St. and East Campus Mall, which sent flames and dark plumes of smoke into the air. The incident also resulted in a power outage for most of the downtown area on the hottest day of the year, prompting evacuations of buildings and the declaration of a State of Emergency from the Governor. Our crews made short work of the fires using firefighting foam, which, ironically, brought to light a problem with the foam itself: PFAS.



PFAS

Per- and poly-fluoroalkyl substances (PFAS) are chemicals that can have a negative effect on the water table and the lakes. Once this was brought to

our attention we researched and tested a fluorine-free alternative and proceeded to decontaminate our equipment and replace the product we were using with the safer, more eco-friendly option.

Fire Station 14

Station #14 has now been open for a full year, responding to emergencies since December of 2018 and responded to a grand total of 1,114 incidents in 2019:

- o Fire – 247
- o EMS – 734
- o Brush Fire – 2
- o Gas Leaks/CO – 18
- o Assist Police – 2
- o Motor Vehicle Accident – 98
- o Rescue – 6
- o Water Rescue -3
- o Info - 4

This station serves the Southeast corner of Madison and parts of Blooming Grove as its “first in” territory. This improved the response times over Station #5 on Cottage Grove Road and Station #6 located on Badger Road near Park Street that used to



At Station 14’s Grand Opening celebration in February 2019, just a few of the people who helped make Station 14 a reality. Left to right: Assistant Chief Clay Christenson, former District 16 Alder Denise DeMarb, Fire Chief Steve Davis, and current District 16 Alder Michael Tierney.

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OPERATIONS

...continued

serve the territory. The station is currently staffed with the City's only full-time paramedic engine. The facility also includes a large community/training room, which is available to both the City and private organizations for meetings and departmental training sessions. The site will continue to be developed for ongoing employee training and for the training of new recruits for the MFD.



Ceremonial Uncoupling of the Fire Hose at Station 14's Grand Opening in February 2019. Left to right: Station 14's A-shift crew: Firefighter Aaron Zurbuchen, Firefighter/Paramedic Michael Reisman, Apparatus Engineer Lori Karst, and Lieutenant Nate Franke are joined by Fire Chief Steve Davis, former Mayor Paul Soglin, former Alder Denise DeMarb, Alder Michael Tierney, and Fire Fighters Local 311 Vice President Kevin Sherry.

Telestaff

MFD continues to refine the implementation of the scheduling platform, which consolidates and improves the accuracy and efficiency of staffing in the department. The software includes daily staffing, vacation selections, overtime staffing, and emergency callback, among other functions. The system continues to grow and increase the efficiency of the department.



Target Solutions



The department's training platform is the source for our daily EMS and Fire studies and provides access to many other essential bulletins, guidelines, and policies that are important to the department. Equipment check-offs are another one of the duties that the system has made more accurate, efficient, and easy to track. That and many other functions have made it much easier for the department to accomplish our missions.



SUPPORT SERVICES

2019 Accomplishments

Vehicles and Apparatus

The department's Apparatus Committee, comprised of members of fire administration, Local 311, and City Fleet Services, continues to work together to design replacement vehicles that meet current National Fire Protection Association (NFPA) standards. In 2019 two fire engines were replaced. MFD normally replaces fire engines and ladders after 10 years of front line and reserve use.

Station 8 on Lien Road and **Station #10** on Troy Drive both received new Pierce Quantum fire engines with a standard 1250 GPM fire pump. Both apparatus have been specced with a flow meter that can record total water flowed through the fire pump which is valuable data that City Water Utility can use to monitor water consumption.



New Engine 10 stationed at 1517 Troy Dr.



New Medic 8, at 3945 Lien Rd.

Four ambulances were designed and an order was

placed with Demers; delivery is expected in mid-2020. One of the four was purchased with additional funding approval for a potential 9th front line unit.

Two **Command Staff vehicles** were replaced, these units are also used as 24/7 emergency response vehicles for members of the Command Staff.

The **Community Paramedic team** and the MFD **Public Information Officer** both received fully electric Chevy Bolts to replace existing vehicles that were 15 and 17 years old. They average over 300 miles on a charge and require very little maintenance. Chargers were also installed at Fire Administration where they are stationed.

A replacement Ladder truck for **Fire Station #1** was designed and will be delivered and put in service in 2020. This Tiller Ladder Truck, will articulate behind the tractor to enable firefighters to position the 107' ladder closer to buildings in the downtown response area. Click this link to learn more about it: <https://youtu.be/OAyAL8B8KRg>

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SUPPORT SERVICES

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Building and equipment upgrades

Fire Station 12 on the far west side received a fire gear washer and dryer. Flooring projects at several stations were also completed.

A ladder training tower was designed and built at **Fire Station 14**. The tower is used by current and newly-hired fire recruits. We are able to deliver ground ladder and aerial ladder training at the site as well.

2020 Goals

Continue with firefighter **cancer prevention initiatives** by evaluating on-scene fire decontamination equipment and procedures.

Additional **fire gear washers and dryers** will be installed and we will continue with the installation of **automated dispatch systems** at three more stations in 2020.

The MFD has several future capital budget items on the City's Horizon List. Currently unfunded, these projects will be further designed and estimated for costs. Requests to proceed will be made to the Finance Department and Common Council during the next Capital Budget process. These items would be completed over the next several years. These include:

- MFD and City Engineering are designing and developing a budget for an **Environmental Burn Tower** to be placed at Fire Station #14. This training building has the potential to offer training that isn't currently available in the area using natural gas or propane. This would provide required live fire training for firefighters, specific training for our special teams, as well as training for community education.
- **Fire Station #6** on Badger Road is being designed for a full remodel. This station, built in 1986, is in need of gender equitable restroom and sleeping areas and we will be requesting the project be completed prior to the Town of Madison annexation in 2022.
- Additional station remodels will be evaluated for **Fire Station #5** on Cottage Grove Road and **Fire Station #10** on Troy Drive.

The MFD will focus on more **eco-friendly options** for future fire engine and ambulance replacement. This is a relatively new market for apparatus manufacturers but the MFD will be on the forefront as products become available.



Newly-built Ladder Training Tower at Station 14 on Dairy Dr.



FIELD OPERATIONS

Lake Rescue Team:

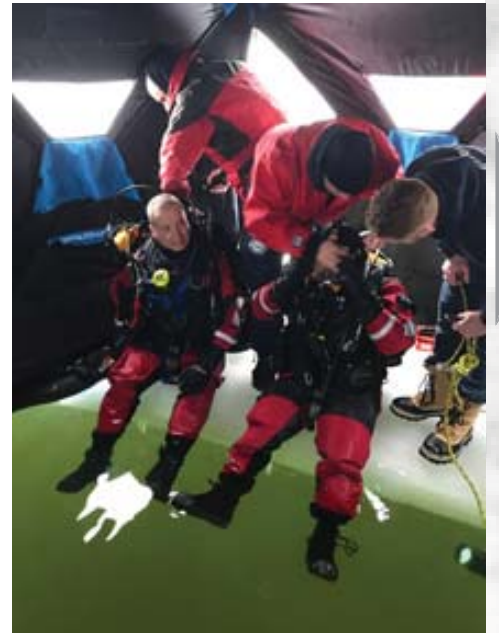
The City of Madison is surrounded by lakes and offers year-round recreation for local residents and visitors. The Lake Rescue team is comprised of 57 members dedicated to water rescue, keeping everyone safe while they enjoy our lakes year-round. These highly-trained individuals are prepared to handle any water rescue incident including struggling swimmers, overturned boats, boat fires, people falling through the ice, and recovery missions. The team is based out of Fire Station #1 located on W. Dayton Street.

Lake Rescue Reponse Highlights 2019:

In April, ten Lake Rescue team members completed **Swift Water Rescue Technician** training in Athelstane, WI on the Peshtigo River. This training provides the rescuer with fundamentals of survival in fast-moving water and practical skills in swift water rescue from shore and by boat.

June - The Lake Rescue Team responded to an area near Monona Terrace for a report of paddle boarder and a kayaker who got caught on Lake Monona in a fast-moving storm. Lake Rescue launched the boat at Law Park and in the process we spotted a paddle boarder who was in distress about a 1/2 mile out. While en route to the paddle boarder, Lake rescue spotted a second person, who was unrelated to first but also in distress, about 1/4 mile to the southeast. Lake Rescue approached both individuals and found there were no injuries, it was just that they could not continue to

paddle as their home ports were directly into the wind. Lake Rescue brought the individuals aboard along with the paddle board and kayak.



The Lake Rescue Team prepares for ice dive training on March 14, 2019 on Lake Monona.

September, 4 am - Lake Rescue was called for 3 individuals on a raft who were missing for over an hour. Lake Rescue Team launched their 24' Lake Assault rescue boat, as this boat is equipped with FLIR thermal imaging system. Armed with this technology, the team located the 3 individuals in complete darkness out in the middle of Lake Mendota. The team rescued them and towed the raft back to shore.



Left: On July 2, the team practiced Swift Water Rescue at the Tenney Locks in Madison.

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FIELD OPERATIONS

Hazardous Materials Incident Team (HIT):

The City of Madison Hazardous Incident Team (HIT) is designated as a Level II team with the State of Wisconsin Regional Hazardous Materials Response Team. When requested by local authorities, the team will respond anywhere in the state for a hazardous materials incident. HIT is comprised of 57 members who can respond to any hazardous material emergency that affects life safety, property, and/or environmental conservation. The City of Madison Hazardous Incident Team is located at Fire Station 7 on McKenna Boulevard. These individuals train each week on all types of hazardous scenarios: material spills, chemical leaks or releases, radiological emergencies, and unknown substances/odors.

A Sampling of HIT Responses from 2019:

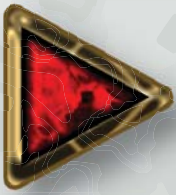
- April: Anderson Street--HIT responded to a **lab explosion** which involved an injured lab technician. HIT arrived on scene and quickly decontaminated the technician of all toxic materials, provided patient care, and transported the individual to a local hospital.



- May: UW-Platteville--HIT was called to University of Platteville Chemistry building to investigate a report of a **blue-tinted vapor cloud**. HIT monitored the area but did not identify any hazards.

- May: Highland Ave--HIT responded to local business for **xylene** spill. The team arrived on location and monitored the spill room for explosive readings, ventilated the room and cleaned up the spill for the occupants.

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FIELD OPERATIONS

Heavy Urban Rescue Team (HURT):

The Heavy Urban Rescue Team (HURT) is a specialized rescue team of 57 dedicated firefighters based at Fire Station #8 on Lien Rd. These firefighters specialize in five rescue disciplines: Building collapse, confined space rescue, grain bin rescue, trench rescue, and high/low angle rescue. HURT members train for hundreds of hours each year and are ready to respond 24 hours a day, 365 days a year.

HURT Highlights 2019:

In September, Cowboy Jack's restaurant on the far west side of Madison caught fire and was a total loss. MFD Fire investigation could not access the building because it was so unstable and not safe to enter. HURT was called in to shore up unstable walls and to cut holes so fire investigators could gain access to specific areas safely. This allowed fire investigation personnel to conduct a thorough investigation.



Cowboy Jack's restaurant on John Q Hammons Dr. in Madison was a total loss after this fire. The business did not have an automatic fire sprinkler system.



This year HURT partnered with Landmark Service Cooperative. Landmark arranged multiple informational tours providing insight into their operations. Landmark also allowed us to do some extensive rescue training in their large grain bins and elevators. This training was hands-on and allowed our team to apply their technical rescue skills to real-life rescue scenarios.



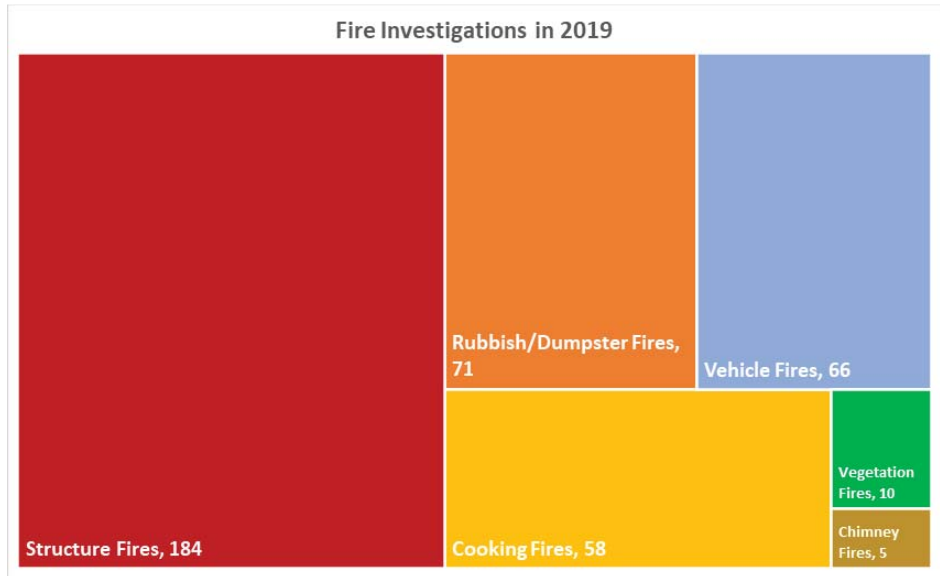


FIRE INVESTIGATION

Investigations

The Fire Investigation Division, with the assistance of fire crews, are responsible for investigating and determining the origin, cause, and circumstances of all fires in the City of Madison. In 2019, Fire Investigation was involved in 184 structure fires, 66 vehicle fires, 58 cooking fires, 71 rubbish/trash bin fires, 10 vegetation fires, and 5 chimney fires. Working closely with Fire Prevention and the Public Information Officer, Fire Investigation shares information to minimize any threats to public safety and firefighters by getting out information needed to reduce risk.

MFD Investigators also conduct pre-employment background checks for all prospective employees. Once a background check is completed, all information is given to the Fire Chief for review prior to final offers of employment.



Training and Certification

Continuing education is a top priority for fire investigation. MFD Investigators attended over 350 hours of training in 2019 and continue to be involved in many fire investigation professional organizations. Fire Investigators also assist in the training of personnel including: Madison Fire Academy, Madison Police, report writing, and crew training at the company level.

2020 Goals

In January of this year, the Fire Investigation Division (FID) was renamed as the Fire Investigation Team (FIT). The team is now operating out of Fire Station 11 and is responding to incidents as a team of 4, with a minimum staffing of 2 FIT members. This change in operation will help fire investigations in several ways. First, responding to calls as a team of 4 will reduce the time needed on-scene, therefore minimizing the time exposed to a potentially hazardous atmosphere.



continued...



FIRE INVESTIGATION

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Second, responses will be quicker in the evenings and weekends as previously, crews had to wait for an on-call investigator to respond from home. Most importantly, scene safety will improve tremendously by having a crew of four personnel on a scene instead of one. Working in a team format will give all of our Investigators the chance to help each other and to test hypotheses and theories surrounding an investigation.

Recognitions

In June of 2019, members of the Fire Investigation Division (FID) were recognized at the Wisconsin Chapter 25 International Association of Arson Investigators (WI-IAAI) spring conference. Investigators from FID, as well as investigators from several other agencies, were presented with the WI-IAAI's "Team Award."

This award recognizes a team of investigators, who, as a result of an outstanding team effort, obtain a fire-related criminal conviction. The award recognized the diligent and professional efforts of the investigators that led to the arrest and conviction of an individual responsible for the murder of his wife, and who attempted to cover-up the murder by blowing up his Madison home. Additionally, MFD fire investigators were also responsible for presenting this complex investigation as a case study to investigators at both the 2019 WI-IAAI Spring Conference, and to homicide investigators at the 2019 Wisconsin Association of Homicide Investigators (WAHI) yearly conference.



Follow-up Investigations Result in International Recognition

On April 5, 2019, the Madison Fire Department responded to a commercial structure occupied by a Japanese restaurant located at 1745 Parkside Drive and suppressed a kitchen fire that caused approximately \$250,000 worth of property damage. Fortunately, the restaurant's automatic sprinkler system kept the fire at bay, preventing further damage. The fire investigation determined that the preparation technique used to make deep-fried tempura flakes, commonly referred to as "crunch" but properly called *tenkasu* or *agedama* had been the cause of the fire due to spontaneous combustion.



The ashen remains of tempura flake "crunch", that spontaneously combusted at a Madison sushi restaurant.

On May 9, 2019, the Madison Fire Department responded to *another* fire at a Japanese restaurant, this one at 696 South Whitney Way. After an extensive investigation, this fire was also determined to be caused by the spontaneous combustion of tempura flakes, resulting in approximately \$325,000 in property damage. Madison Fire Department investigators, working in conjunction with the Bureau of

Alcohol, Tobacco, Firearms, and Explosives (ATF), researched the spontaneous combustion of tempura flakes using the ATF's nationwide networking capabilities, and found two other similar fires at sushi restaurants in the United States. Investigators also consulted

continued...



FIRE INVESTIGATION

...continued

with lab experts regarding the spontaneous combustion of food products in order to prepare safety recommendations. Additionally, Madison Fire Department investigators assisted three fire departments in the state of Wisconsin who had similar fires in sushi restaurants, by sharing experience, information gathered during the investigations, and research performed. As a result of the multiple fires caused by the techniques used to prepare tempura flakes, the Madison Fire Department published a Fire Hazard Bulletin that included safety recommendations, and released it to the community.

Local media shared this bulletin and interviewed investigators, which allowed the dissemination of information about prevention and best practices to area restaurants that serve sushi. Wisconsin Public Radio broadcasted the recommendations at a state level (<https://www.wpr.org/investigators-sushi-restaurant-fires-caused-ingredients-spontaneous-combustion>), which led to other news outlets picking up the story.

Madison Fire Department investigators were interviewed by The New York Times, (<https://www.nytimes.com/2019/07/15/us/sushi-restaurant-fires.html>), which spread the message of prevention and best practices nationally, and ultimately, internationally to news outlets in

Europe, Asia, Australia, and the Middle East. This investigative work and follow-up is a prime example of how investigators from the local, state, and federal level, along with private fire investigators, can produce very successful results by working in conjunction with each other. This teamwork led to an extensive media awareness and prevention campaign, most likely resulting in the prevention of an immeasurable amount of future property loss and potential life loss worldwide.



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EMERGENCY MEDICAL SERVICES DIVISION - EMS

The Madison Fire Department continues to respond to a high number of emergency 911 medical calls with dedicated emergency medical technicians (EMTs) and paramedics. They provide the first-line of trained medical care for the sick or injured people of this community. Typically operating in teams, our responders provide life-saving care to everyone; from patients in their homes who may be having a stroke or heart attack to multi-vehicle accidents on the interstate.

The National Association of Emergency Medical Technicians describes these two categories of emergency medical practitioners:

- **Emergency Medical Technicians (EMTs)** conduct basic, noninvasive interventions to help save lives and reduce harm at emergency sites. They can do everything a responder does, plus they have the skills needed to transport patients safely. In many places, EMTs provide the majority of out-of-hospital care. To be licensed as an EMT, you must take an accredited course.
- **Paramedics** are the highest-skilled emergency responders, trained in and capable to perform invasive and pharmacological interventions. Licensure requires successful completion of a nationally accredited paramedic program at the certificate or associate's degree level.

As EMS call volume continues to rise throughout the city, the Madison Fire Department must think of creative ways to provide coverage. In 2019, staffing on Engine 14 was enhanced to include a firefighter/paramedic at all times. As a paramedic engine, we can provide the southeast territory a higher level of care while waiting for an ambulance to arrive. We have seen numerous situations throughout the year where this initiative has made a positive impact on EMS calls. For example, a 911 call was initiated for an elderly male patient who was experiencing chest pain. Medic 6 and Engine 14 were simultaneously dispatched to respond to this patient. However, Engine 14 arrived on scene 5 minutes and 45 seconds *before* the ambulance. The E14 crew performed a 12-lead cardiogram, which revealed that the patient was having an inferior infarct (heart attack). Patient treatment continued with placing oxygen, IV, and medications before the ambulance even arrived on scene. The paramedic on Engine 14 was also able to speed up the notification to the emergency room which allowed a smooth transition straight into the hospital cath labs. We look forward to continuing to analyze data to prove the positive impact this staffing effort has made.





EMS OPERATIONS

Tactical Emergency Medical Support (TEMS) Team

The MFD TEMS team is comprised of 12 paramedics who serve the City of Madison as a platoon of the Madison Police SWAT Team. These specially trained and equipped paramedics work side-by-side with SWAT officers, ready to provide emergent medical care to officers, police K-9s, citizens, and suspects at high-risk incidents. TEMS is activated with SWAT for hostage situations, barricaded subjects, search warrants, dignitary protection, and large-scale public events.



2019 was an all-time record-setting year for the SWAT team, as the team deployed on 120 activations -- up 32% from 2018! The TEMS team is encouraged by the strong collaboration, teamwork and unification that the team brings to the police and fire departments. Regardless of the situation, the TEMS team stands ready to respond with their brothers and sisters in blue.



Our Tactical EMS team recently learned "K9 First Aid," familiarizing themselves with how to provide emergency medical care to injured police K9s.



EMS TRAINING DIVISION

2019 Highlights

Training is one of the most important things we do as EMS Providers. We learn and grow with each repetition and example in order to serve our City at the highest professional level possible. In 2019, the Madison Fire Department EMS Division trained all of its members on many topics and with different mediums and methods of instruction.

Topics included:

- Cardiology
- Trauma
- Airway
- Stroke
- Infectious disease
- Pain Management
- Special needs populations
- Emergency operations

Mediums and methods included:

- Video-based
- Computer-based
- In person
- Scenario based (Emergency medical simulations)
- Post Incident Analysis (PIA)
- Lecture
- Hands-on Labs

A highlight of our 2019 training was a **cadaver lab** held here in Madison. Paramedics were given the same opportunities as medical students to study the human body and establish inter osteo (IO) lines for administration of life-saving medications. These opportunities are rare and ensure that we are ready when this application is indicated.

Each year the large majority of our training adds to our **continuing education units** (CEUs) to maintain our State licenses. The total number of CEUs in 2019 was more than 7,000 hours!

Madison College's **Paramedic program** was again utilized to train 16 of our personnel to the Paramedic level of licensing. Additionally, the EMS Training division provides a week of orientation training in the areas of Incident Command, operations, electronic patient care reports, and emergency vehicle operations. Once this is completed the students enter the field and run real calls while being supervised by qualified Paramedic preceptor. After a minimum of sixteen 24-hour shifts, the students take the State of Wisconsin practical and written final exams and are licensed to practice.

A very important aspect of our service is to be prepared for **mass casualty incidents (MCI)**. In August of 2019 the Madison Fire Department joined forces with UW Police, Madison Police, Dane County EMS, Sun Prairie EMS, Monona Fire, the Madison Metropolitan School District and all of the area hospitals for a functional exercise related to an active threat MCI. Some of the areas of emphasis were communications, command and control, triage, transport, and rescue task force teams. Rescue task force teams are comprised of both police and fire personnel and operate together to save lives in these unfortunate incidents. Looking forward to 2020, the Madison Fire Department is hosting a "full scale" scenario that takes operations of this sort to the next level of realism.

The Madison Fire Department is dedicated to being the best in all areas of emergency service and training is at the forefront of that effort. We will continue to find new and innovative ways to prepare and strive to ensure that our service to our community is second to none.





FIRE TRAINING DIVISION

A main goal for the Fire Training Division going into 2019 was to continue to find multiple ways to support Company Officers in company level training delivery and specifically with regard to New Driver Training, which is an area of concern from a liability standpoint for the Fire Service as a whole. Ensuring our new driver operators continue to receive quality training in our Acting Engineer Program at the company level is key to ensuring we are operating safely on roadways.

In 2019, the Fire Training Staff consisted of a Division Chief, 3 Shift Training Captains, and two full-time Training Officers.



Current training programs delivered and administered by the Division include:

- **Recruit Academy**
 - o FFI and FFII Certification
 - o Hazmat Technician
- **Apprentice Program**
 - o Approx. 65 Apprentices
- **Mentorship Program**
- **Engineer Training**
 - o Acting Engineer Program
 - o New Engineer Orientation
 - o Quarterly Engineer Training
- **Officer Training**
 - o Acting Officer Program
 - o New Officer Orientation
 - o Quarterly Officer Training
- **Annual Safety Stand Down**
- **Doctor Ops Day**



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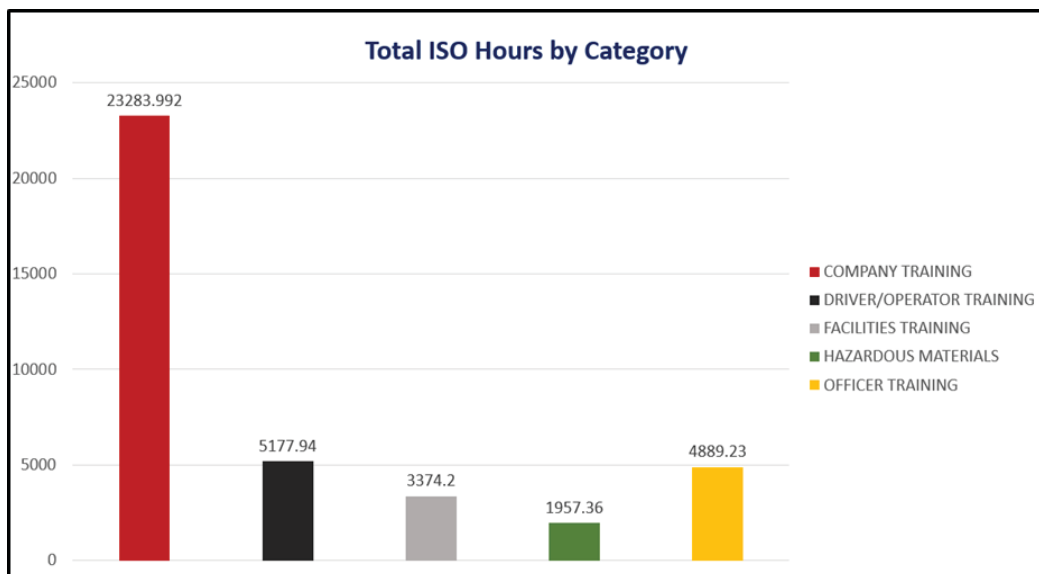


FIRE TRAINING DIVISION

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2019 Division Highlights include:

- **Recruit Class 9**
 - o 10 new firefighters
 - o Recruit Class 9 is the first recruit class held at Station 14 our new Training Facility
- **New Officer Orientation – 10 new officers**
 - o NFPA 1021 Standard for Fire Officer Prof. Qualifications
- **Increased ability to train at Acquired Structures**
 - o Focus – Commercial Fires
- **Radio System Upgrade - Final Phase Training**
 - o 386 hours
- **Madison Gas and Electric – Field Training**
- **Forcible Entry Training**
 - o Support and follow up training for L311 sponsored Paul Conway Through-the-Lock Forcible Entry Training
- **New Equipment Training**
 - o Through-the-lock forcible entry kit
 - o Dbl. Ended Roof Ladder
 - o Squad 9 Cascade System



2020 Goals:

- Work collaboratively with the Support Services Division in an effort to continue to build out Station 14 for training delivery
- Develop a Tractor-Drawn Aerial Driver Operator Training Program



RECRUITMENT

The **MFD Recruitment Committee** was in full force with the 2019 hiring process for the position of firefighter/EMT. The focus was not only to reach local candidates, but also appeal to people from other states. The committee members worked in cooperation with the City IT department to improve the MFD website as well as create some interesting new short videos to help grab more attention. These videos were shared throughout multiple social media outlets to help people learn what being a Madison firefighter is all about. Across the various social media platforms, these videos were viewed over 170,000 times!

The committee also continued the successful practice of hosting three open houses at fire stations in 2019. These opportunities gave people the chance to gather information from a diverse fire department population inside an actual fire station.

This year we accepted applications from 1,057 people from various backgrounds and locations. Although the total number of applicants was down this year, we actually met our goal of maintaining (or improving) the diversity among the applications we received.

Total Apps	TOTAL		GENDER			RACE/ETHNICITY							VETERAN			DISABILITY			
			F	M	ND	AI	A	B	H	PI	O	ND	W	NO	YES	ND	NO	YES	ND
2013	1887	100.0%	146	1723	18	15	23	131	75	7	43	21	1572	1674	213		1860	27	
			7.7%	91.3%	1.0%	0.8%	1.2%	6.9%	4.0%	0.4%	2.3%	1.1%	83.3%	88.7%	11.3%		98.6%	1.4%	
2015	1752	100.0%	155	1556	41	18	14	145	97	6	57	34	1381	1496	235	21	1697	21	34
			8.8%	88.8%	2.3%	1.0%	0.8%	8.3%	5.5%	0.3%	3.3%	1.9%	78.8%	85.4%	13.4%	1.2%	96.9%	1.2%	1.9%
2017	1615	100.0%	163	1436	16	15	11	99	104	6	49	21	1310	1400	204	11	1566	35	14
			10.1%	88.9%	1.0%	0.9%	0.7%	6.1%	6.4%	0.4%	3.0%	1.3%	81.1%	86.7%	12.6%	0.7%	97.0%	2.2%	0.9%
2019	1057	100.0%	156	894	7	10	10	69	64	5	48	10	841	913	143	1	1020	30	7
			14.8%	84.6%	0.7%	0.9%	0.9%	6.5%	6.1%	0.5%	4.5%	0.9%	79.6%	86.4%	13.5%	0.1%	96.5%	2.8%	0.7%

Recruitment Highlights:

- Statistical improvements in percentages of women and people of color who applied.
- Hosting women in **CampHERO 4 Women** program.
- Participated in **FutureQuest** career program for Dane County Middle school age children.
- Organized three different recruitment open houses (Stations 7, 8, 14).





HIRING & PROMOTIONS

Hiring

During the fall of 2019, a new academy class began, and was the first class to use our new training facilities at Station 14, which opened in December 2018. Class 9 delivered ten new recruits to the field with a variety of backgrounds including nurses, coaches, educators, and sales associates, to name a few. These graduates have been assigned to fire stations across the city and embody the core values of the MFD: Honor, Integrity, Caring, Compassion, and Respect.

The fall also ushered in the beginning of our next hiring process. The hiring process includes a video-based multiple choice test, community member oral board examination, department oral board examination, Fire Chief's interview, physical ability test, background check, and medical evaluation. Candidates who are successful in these steps are placed on an eligibility list with the Police & Fire Commission (PFC). The eligibility list is active for approximately 18-24 months or until it is dissolved by the PFC.



Fire Station 14, which opened in December of 2018, now also serves as the Department's Training Facility. From left: Classroom, Roof training simulator, Ladder training tower.



The Training Division with Recruit Class 9 on Graduation Day, December 20, 2019.

Front row: Chief Burrus with the Training Officers

Back row: The ten newly-sworn recruits of Class 9

Promotions

Several hiring and promotional processes were conducted in 2019. Many of those members were recognized for their career advancements at the achievement and promotional ceremony in October.



HEALTH & WELLNESS

The Madison Fire Department is committed to the health and wellbeing of our employees to better assist in the care we give to City of Madison residents and visitors.

The department's Occupational Medicine provider, SSM Health Dean Medical Group, provides MFD with all its medical services based on the **NFPA 1582 Standard on Comprehensive Occupational Medical Program for Fire Departments**. Medical exams are offered to every commissioned member of the department on a yearly basis and 187 took advantage of this opportunity in 2019. From 27% of the department in 2018 to over 50% in 2019 is a sign our people are taking better care of themselves and using the department's benefits to their advantage. Dean Medical also administered 200 flu shots to department members.

Peer Fitness

The MFD Peer Fitness Team consists of five members whose purpose is to identify, educate, and develop members of the department in the area of Health & Wellness. Promoting a healthy lifestyle and staying fit assists the department in reducing injury costs and lost time wages. Peer Fitness Team members assist in department exercise equipment inventory and the purchase of new equipment. They also have assisted several MFD members with personal workouts and nutritional plans to speed up recovery times for injured personnel. The team utilizes Target Solutions to provide a multitude of health-related information.

Tactical Athlete Health & Performance Institute (TAHPI) program

This program is designed to assist our members and their families in expediting the medical process associated with injuries that occur unexpectedly. TAHPI has been active in the department for almost two years and has made a significant impact on reducing lost wages due to injuries.

Type of Injury →	On Duty	Off Duty	Courtesy	Total
Department: Opportunity Name ↑	Record Count	Record Count	Record Count	Record Count
Madison Fire Department	15	23	6	44

Cancer Prevention Initiative

Madison Fire continues to promote cancer prevention, and along with the Cancer Prevention Committee, strives to incorporate innovative ideas to make the environment in our work and living quarters safer. Working with the department, the Cancer Initiative Committee is continuing to add gear washers and extractors to stations and to educate department members about the importance of clean gear and physical fitness.

In 2019 MFD added 3 saunas to Stations 1, 12, and 14. These saunas are meant to assist with the detoxification of exposure to carcinogens. The department also added decontamination kits to apparatus to minimize the amount of time members are exposed to carcinogens.



PEER SUPPORT

The MFD Peer Support Team is comprised of fellow MFD members (current and retired) who provide confidential emotional support, awareness, guidance, tips, suggestions, and an empathetic ear to members who reach out for assistance, as it often helps to talk to someone who has had similar experiences. The Peer Support Team continued to provide reinforcement for current and retired members of the Madison Fire Department throughout 2019. This group of 12 members (4 retirees) volunteered their time and effort throughout a difficult year on our department. According to EAP 2019 data, 20 critical incidents were debriefed for the Fire Department. Ten of these debriefings were held as joint debriefings with Madison Police and/or other first responder agencies. The nature of the calls that resulted in these debriefings were:

- Traffic fatality – 4
- Suicide or attempted suicide – 2
- Drowning – 1
- Death of Fire member or family member – 5
- Threatening behavior – 1
- Medical incident – 1
- Child/infant death – 5
- Homicide – 1

Peer Support Members submitted Contact Data Forms to the EAP in order to document contacts with co-workers and also assist with the coordination of critical incident (CI) debriefings. Here is the data collected from those forms:

- Seven Peer Support Members documented contacts in 2019
- Number contacts in 2019: 197 (at least 62 of these contacts were related to the death of AE Todd Mahoney)
- # hours spent in role as PSM in 2019: 118.75 hours, both on and off duty
 - at least 65 of these were hours spent following the death of member Todd Mahoney
 - 30.25 hours spent on coordination of CI debriefings.

PEER SUPPORT





EMERGENCY MANAGEMENT

The Emergency Operations Center (EOC) was activated for the July 19 explosion at the MG&E transformer station. The explosion and fire caused an extended power outage for most of the isthmus. Agency heads and the Mayor's Office quickly gathered at the EOC to coordinate



city services and support the community during the outage. One of the priorities was to make sure vulnerable populations received needed support. We worked with homeless service

and shelter providers to set-up a temporary community shelter. In addition to the power interruption, the day was one of the hottest of the summer. Many city agencies realized the importance of Continuity of Operations Planning and quickly began working on such plans.

Under direction of the Emergency Management Coordinator and with support from city agencies, AASPIRE Intern Connor Dacey developed an **Inclusionary Community Response Plan** and **Volunteer Management Plan**. Agencies participated in emergency management training and tabletop exercises.

Emergency management is often perceived as a response by the police and fire departments. This perception is partially correct. However, emergency management includes many city agencies working together to plan, respond to, mitigate, and recover from natural- and human-caused incidents or disasters. Others see emergency management as something the county, state, or

federal government provides for the local units of government.

Emergency management is very much a local responsibility. In the event of an incident or disaster, city agencies are the first to arrive and the last to leave. The roles and responsibilities of the city's emergency management functions were front and center for the flooding in fall of 2018.



Photo from the July 19, 2019 transformer fire at MG&E



FIRE PREVENTION

The Fire Prevention Division, under the leadership of Fire Marshal Ed Ruckriegel, is made up of four units: Fire Code Enforcement, Community Education, Fire Protection Engineering, and Elevator Inspections. These units focus on the basic principles of safety: engineering, education, and enforcement. This approach helps the city be a safe and vibrant place for residents and visitors, while also keeping our firefighting personnel safe.

The Fire Prevention Division exceeds many goals on an annual basis, set both inside and outside the department:

- Our plan review numbers continue to increase, and we continue to maintain our 5 day turn-around on average, despite the large number, size, and complexity of today's buildings.
- All of our inspectors contribute to help spread community education throughout the City, allowing for more personalized, area-driven results.
- Last October, MFD prevention personnel were in every school in the city--public and private--reaching thousands of children with fire prevention programming based on nationally recognized models.
- Staff provided above- and below-ground tank plan review, inspection and approval city-wide.
- The Division completed the key vault project that began in 2018, updating and securing the fire department's rapid entry system city-wide.

The FPD Division continues to strive for excellence in all that we do to serve City of Madison residents and visitors. Our training is the core guiding principle of the work that we do. Working closely with field staff, command staff, business owners, and residents allows us to tailor our code enforcement and safety education strategies to meet the needs of our citizens.

The Fire Prevention Division has a multi-modal revenue model incorporating plan review fees, elevator inspection fees, 2% fire dues (paid by the State), tank inspection program, and other miscellaneous fees and fines. In 2019, the combined revenue streams added up to over \$2 million in gross budget revenues and to the City General Fund. Expectations for 2020 include a continued increase in gross revenues.

Plans for 2020 include more coordinated and comprehensive fire safety and compliance information for outdoor event organizers. With an array of potential hazards such as open flame cooking, the use of propane, temporary power, capacity approvals and unobstructed exits, event organizers and vendors need good information relative to event safety. The department will work with event organizers to disseminate safety standards.

Fire sprinklers save lives, money, property, and the environment. The Fire Prevention Division will continue to advocate for the installation of fire sprinklers. The installation of home fire sprinklers is the most effective means to reducing residential fire fatalities locally and across the country.





FIRE PREVENTION

Code Enforcement Unit

The Code Enforcement Unit of the Fire Prevention Division is made up of 10 Fire Code Enforcement Officers and 1 hybrid Code Enforcement/Community Education Officer. The unit focuses on verifying that all commercial buildings in the city are operated and maintained safely.

Our primary responsibility and focus is on performing fire safety inspections in all multi-unit residential and commercial properties. The field staff (firefighters) assist with many of the inspections, allowing us to be inside the majority of buildings twice a year. While that is our primary focus, our unit assists in many other areas such as community education, supplementary plan review, and many other assigned duties, such as our occupational services unit (OSU), which assists displaced occupants following a fire. Along with the additional duties that our unit performs, the number of inspections increases every year, as does the complexity of the inspections.

The Madison Fire Department performed 25,759 inspections in 2019, a slight increase over 2018. The vast majority of inspections performed are routine in nature, with a small percentage being code enforcement or new construction activities.



The arrow is pointing to a missing exit sign, which is a fire code violation.

Status	Percent
No Violation	57.5%
Written Orders	17.8%
Violations Corrected	15.5%
Vacant Exterior	3.2%
Not Corrected	2.8%
Verbal Orders	1.4%
10-Day Notice	0.8%
Re-Issue Orders	0.5%
Rescheduled	0.3%
Reinspection Failed	0.1%



FIRE PREVENTION

Community Education Unit

In 2018, fire prevention staff delivered presentations to more than 30,000 adults and children in schools, workplaces, residential facilities, and with community organizations.

The community educator for the department also schedules and coordinates **station tours and visits**. MFD's 14 fire stations reported hundreds of people visiting MFD firehouses in 2019.

Madison's elementary school children make up the greatest number of residents reached, with the bulk of these visits occurring during **Fire Prevention Month** in October. Fire prevention staff visited all Madison elementary and private schools in 2019, with a total of over 6,000 children and teachers participating.

Safety Town is a program designed for children entering kindergarten in the fall that teaches children how to be safe in their community. Safety Town uses hands-on activities to teach children about many different aspects of safety and injury prevention. In 2019, Safety Town reached over 200 children; Safety Town 2019 was located at our Training Facility at Station 14.

Safety Saturday is an event that educates parents, children, and the public on ways to make safe decisions, prevent injuries, and to encourage the use of safety devices such as seat belts, bike helmets, and smoke alarms. Using the State Capitol Square and Dane County Farmers' Market as a setting, thousands of community members attend the Safety Saturday event each year.

The MFD and Madison Area Safe Kids Coalition sponsored 22 **car seat check events** at fire stations. In 2019 the partnership provided over 360 car seats, at low cost, to families in need. An additional 330 car seats were checked for proper installation.





FIRE PREVENTION

Fire Protection Engineering Unit

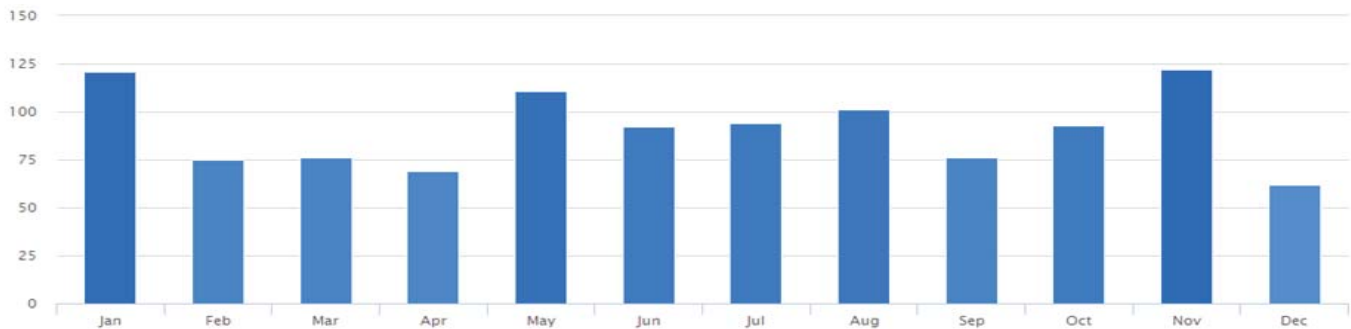
The Fire Protection Engineering unit is responsible for ensuring that site development, new construction, and alteration projects comply with building and fire codes as well as Madison General Ordinances. This is accomplished by working with owners, developers, and contractors in the design phases of projects, reviewing construction documents, and inspecting and testing installations of site access, fire suppression, fire alarm, controlled egress, smoke control, and fire command centers.

In 2019, the MFD again exceeded the previous year's totals in plan review submittals. Despite the ever-increasing complexity and number of reviews, our prevention staff is maintaining an average of 5 days to turnaround reviews.

The City of Madison has seen an unprecedented boom of high-rise buildings. Each one of these represents an enormous amount of work by our FPE, and our fire prevention staff. The Fire Protection Engineering Unit works tirelessly to provide safe housing to our residents, which protects our first responders as well.



In 2019, over 1,200 plan reviews were performed. Plan reviews are done by multiple staff members of the Prevention Division, showing our multi-disciplinary approach to code enforcement. Our staff not only reviews the plans, but does field inspection and approval on all systems that are reviewed.



Number of plans reviewed each month in 2019



FIRE PREVENTION

Elevator Inspection Unit

The Elevator Inspection Unit consists of 3 State of Wisconsin Certified Elevator Inspectors. The unit works to ensure the safe installation, alteration, and operation of conveyances, which includes elevators, escalators, chair lifts, and dumbwaiters.

The primary focus is on timely plan review, accurate and safe new installations, and annual inspections to grant the required Permit to Operate.

The Elevator Inspection Unit worked hard to approve new elevators before use by building occupants and to keep existing elevators operating safely. Our unit provides training on a regular basis to the firefighters and command staff, showing safe operation and control over all types of conveyances.

In 2019, 2,588 inspection activities were logged, including new installations. The City of Madison continues to see an increase in new elevators every year. Currently, the City records inspections on over 2,900 conveyances, all of which require an annual visit.



Elevator Inspections in 2019

Status	Percent
Written Notice	26.55%
No Violation	22.76%
Verbal Notice	22.22%
Corrected	13.10%
Not Corrected	6.53%
Corrected, violations remain	3.21%
Other	5.64%



INFORMATION TECHNOLOGY

Keeping up with the rapid evolution in technology is no small task but it's an important one. The Madison Fire Department Division of Information Technology has one full-time staff member responsible for managing and coordinating the diverse technology needs of the Madison Fire Department, so we can continue to improve service and streamline operations.

Technology Changes in 2019

- Through the course of 2019 we **replaced about 1/3 of our Mobile Data Computers** (MDCs) with the new Dell Rugged Mobile Data Computers.
- Began the migration from the Panasonic CF-20 to the **Dell Rugged Extreme 2-in-1 laptop tablets**. This was implemented in intervals for easier transition.
- Quarterly updates were planned and executed regarding the **maintenance of MedVaults and Key-Secures** in all 41 frontline mobile units.
- Continuous optimization, management, mobilizing, and demobilizing of **Command Post** for city-wide events and trainings.
- Work to **change over the GPS protocols language** continued this year. This is to improve units use for sending GPS coordinates from Cradlepoint routers to CAD for increased vehicle location accuracy.
- Progressed with the project outline for testing and migrating the department to **FirstNet**, which includes the testing of new equipment, coverage areas, and analysis of data usage and costs.
- Coordinated with City IT on the upgrading of all workstations and mobile data computers from Windows 7 to **Windows 10**. There were approximately 234 devices that were upgraded to Windows 10.
- Worked closely with IT on creating new security rules and login policies for Windows 10 before implementation.
- **BrightSign** players have been implemented in Fire Admin to allow the command staff better situational awareness of active calls.
- Helped design and set up a **new computer area at station 14**. This new computer section was set up for the recruits to study and check emails.
- Planned and designed **Station 1's training room remodel** and set-up.
- Coordinated with IT and command staff on **upgrading WiFi coverage** at stations 2, 11, and 12. The increased coverage will maximize connectivity in the Community rooms and throughout the stations.
- Worked with City IT and Dane County 911 to optimize and **enhance connectivity** for emergency vehicles and cloud-based applications utilized on vehicles.
- Collaborated with City IT to implement a **new ticketing system** that will allow us to migrate from using SharePoint.



continued...



INFORMATION TECHNOLOGY

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New Projects for 2020

- Regarding **FirstNet** – moving into the testing stage of the planning; will be starting the process of testing several FirstNet devices for connectivity and reliability.
- Replace outdated **MedVaults** in all frontline Med Units by the end of year.



- Upgrading several **KeySecure** devices of front line units as support was being discontinued by the manufacturer.
- Will begin setup of new **analytic software** for dashboards and reporting. This software will help us better understand and report the department's strengths and needs.

- Designing and planning for **Station 12's training room remodel**, which should be completed by the end of the year.
- The migration project from the Panasonic CF-20 to the **Dell Rugged Extreme 2-in-1 laptop tablets** will be completed this year.
- With assistance from City IT, we will be researching **new cable TV services** for the City, along with equipment replacements.
- We are working on upgrading **TeleStaff** to a more current version. The new version will allow for text message notifications for staffing needs.
- Will continue to work with City IT and Dane County 911 to **enhance connectivity** for emergency vehicles and cloud based applications utilized on vehicles.
- In 2020 we will continue to replace Panasonic CF-31s with the new **Dell Rugged laptops** with a goal of 25% replaced by end of year.



- Sometime in 2020 **SharePoint will be upgraded** from SharePoint 2010 to the latest version of

SharePoint available to us.

- The collaboration with City IT to implement a new ticketing system will continue, with the goal that a new ticketing system will allow us to migrate from using SharePoint in the next year or two.





FINANCE

2019 OPERATING BUDGET AS OF FEB 28, 2020

	Adopted Budget	Actual with Encumbrances	Balance
*Permanent & Premium Salaries	\$ 36,258,519.00	\$ 35,832,167.00	\$ 426,352.00
Hourly wages	10,000	11,080	(1,080)
Overtime Salaries	934,288	1,841,713	(907,425)
Special Duty	91,000	103,878	(12,878)
*Benefits	13,528,146	14,177,622	(649,476)
Other Grants/Transfers	424,977	485,421	(60,444)
Purchased Services	1,471,648	1,290,776	180,872
Materials & Supplies	1,273,443	948,104	325,339
Inter-Agency Charges	4,252,022	3,808,957	443,065
Capital Assets	-	-	-
Inter-Departmental Billings	(1,500)	-	(1,500)
*Revenue	(3,659,730)	(2,995,232)	(664,498)
Net Budget	\$ 54,582,813.00	\$ 55,504,486.00	\$ (921,673.00)

* Includes Grant Funding

2019 CAPITAL BUDGET

PROJECT	AMOUNT
Fire Equipment	\$ 500,000
Communications Equipment	150,000
Minor Building Improvements	70,000
Building Access	50,000
TOTAL	\$ 770,000

