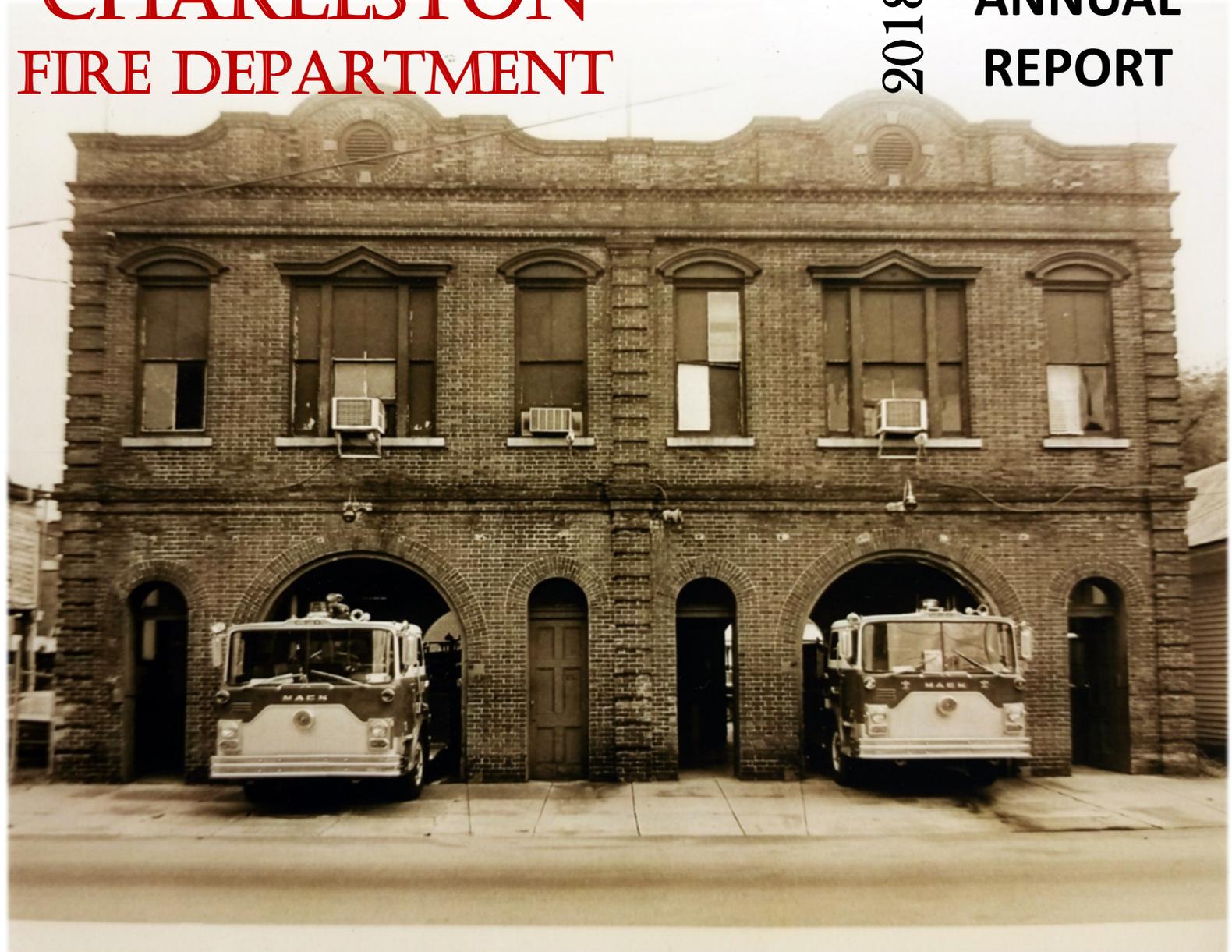
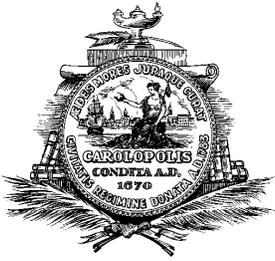


CHARLESTON FIRE DEPARTMENT

2018

ANNUAL
REPORT



SERVICE, COMMITMENT, COMMUNITY, INTEGRITY, & PROFESSIONALISM

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City of Charleston Mission Statement

To preserve and enhance the quality of life of the citizens
of the City of Charleston.

Values

Citizens

We value our diversity and are committed to treating every
resident with respect, honesty and courtesy.

Public Safety

We value every citizen's safety and understand that safe, public
spaces and neighborhoods are essential to our quality of life.

Quality Services

We value providing high quality municipal services at the lowest
possible cost to our residents.

Physical Place

We value our unique natural resources, our man-made
environment, public realm and neighborhoods, and we understand
how our physical place affects each resident's quality of life. We
will work with others to increase the sustainability of our physical place.

Regional Partnerships

We value working with other government entities within our region
to sustain and improve the quality of life for all citizens.

Elected Officials of the City of Charleston



The Honorable Mayor John J. Tecklenburg seated at desk.

**Council members seated from left to right: Robert M. Mitchell - District 4, Carol A. Jackson - District 12,
F. Gary White, Jr. - District 1, and Marvin D. Wagner - District 5**

Council members standing from left to right: A. Peter Shahid, Jr. - District 9, William Dudley Gregorie - District 6,

Michael S. Seekings - District 8, Kevin Shealy - District 2, Harry J. Griffin - District 10,

William A. Moody, Jr. - District 11, James Lewis, Jr. - District 3 / Mayor Pro-Tem, and Perry K. Waring - District 7



Letter from the Fire Chief

The spirit of service is at the heart of everyone in the Charleston Fire Department (CFD), regardless of rank or position. It is that spirit, coupled with pride, dedication, and preparation, that enables the Charleston Fire Department to deliver services in a swift, effective, efficient, and safe manner. As a review of this report will show, the CFD continues to proactively meet the needs of the community through its risk reduction efforts, training focus, and emergency preparedness.

The members of our team genuinely love their work and the community in which they serve, which allows the department to execute its vision with passion and integrity. Residents and visitors alike should rest assured, knowing that the Charleston Fire Department is positioned to meet the needs of the community. Whether through fire suppression or medical efforts, actions of our specialty units, community risk reduction, or partnership within the community, the Charleston Fire Department is prepared and proud to respond.

2018 was a pivotal year for the CFD. Although its mission did not change, service expanded with the opening of Fire Station 14 in Carolina Bay and Fire Station 21 in Cainhoy. The leadership team within the department was refined, with a new fire chief and two new deputy fire chiefs promoted into their positions. We also saw the retirement of Interim Fire Chief John Tippett. Additionally, the CFD team renewed its focus on the department's strategic plan and developed metrics to determine success in a fast-paced, ever-changing environment.

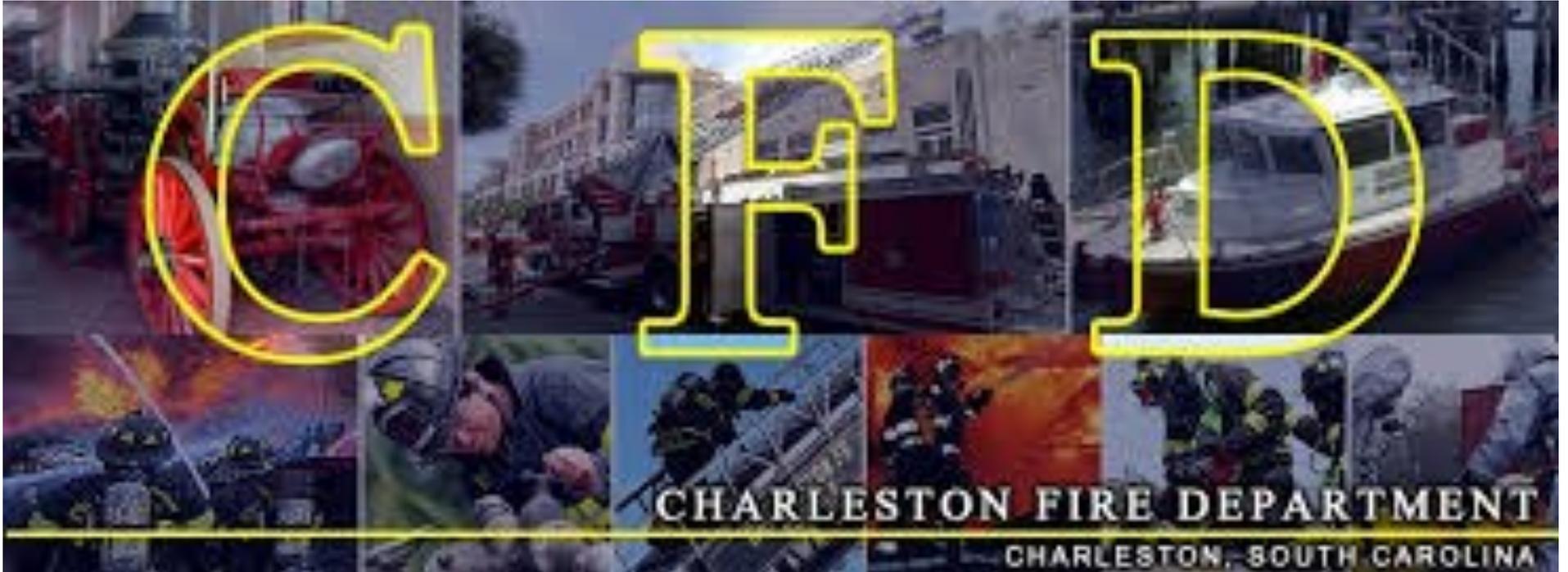
I hope you enjoy the CFD annual report and that it allows you to gain an appreciation for the fine work and commitment exhibited by the men and women of CFD. The following pages are filled with exemplifications of the CFD values – service, commitment, community, integrity, and professionalism. It is my hope that after your review of this document, you will feel the same pride for the CFD as I have in leading them.



**Fire Chief
Daniel M. Curia**

A handwritten signature in black ink that reads "Daniel M. Curia". The signature is written in a cursive, flowing style.





CHARLESTON, S. C.—A WATCHMAN DISPLAYING THE FIRE SIGNAL ON THE BALCONY OF ST. MICHAEL'S CHURCH.



CHARLESTON

FIRE DEPARTMENT



VISION

As the Charleston Fire Department strives to maintain a reputation of exceptional service delivery, it is our vision that, by 2021, we shall be widely known for Service, Commitment, Community, Integrity and Professionalism in the provision of world-class service during a time of transition and transformation.

Charleston Fire Department will enhance workforce development and realize greater stakeholder satisfaction through ever-improving and transparent communications practices.

From industry best practices, we seek to implement cutting-edge training that supports an enhanced emergency response program for the community.

Delivery of a comprehensive community risk reduction program and enriched public outreach will further solidify our strong commitment to the community. Citizens and visitors alike will have a protected place to live and work as a result of our department's highly-trained and appropriately equipped personnel serving from safe and well distributed facilities.

By exceeding the needs and expectations of our stakeholders, delivering our mission, living our values, and accomplishing our goals, we shall bring this vision to fruition.

GOALS

Emergency Response Program

Workforce Development

Resource Allocation Plan

Community Risk Reduction

Training

Communications

Public Outreach

MISSION

The Charleston Fire Department protects and serves our community through professional delivery of prevention, outreach, and emergency response services.

VALUES

- Service** - Provide safe, timely, and efficient response to our community.
- Commitment** - Duty and responsibility to our community and members of the organization.
- Community** - Dedicated to involving and including our citizens.
- Integrity** - Being honest, respectful and loyal to our community and peers.
- Professionalism** - Achieve excellence through progressive and courteous service.

Fire Department Historical Overview

1738 - Great Conflagration destroyed much of Charleston

1784 - Hand in Hand Fire Company was organized. The company consisted of a bucket brigade

1801 - Charleston Fire Company of Axemen formed, purchasing the first hand engine company

1816 - Eagle Fire Company

1819 - Vigilant Fire Company

1826 - Phoenix and Charleston Fire Companies

1829 - Aetna Fire Company

1838 - German Fire Company

1839 - Marion Fire Company

1840 - Palmetto Fire Company

1842 - Hope Fire Company

1849 - Washington Fire Company

1849 - Palmetto Axe and Protection Ladder Companies

1861 - First steam fire engine purchased by the Charleston Fire Company of Axemen

1861 - Most devastating firestorm in city's history. Caused \$7,000,000 in damage (Equal to \$199,844,432 in 2019)

1861 - Charleston Hook & Ladder Company was formed

1877 - Gamewell telegraph fire alarm system installed city wide

1882 - Mayor William A. Courtenay organized the paid CFD and disbanded the volunteers

1905 - First automobile purchased to replace the fire chief's horse and buggy

1910 - First motorized fire engine purchased

1913 - Marine Division placed into service utilizing three private tugs; Waban, Cecelia, and Victoria

1920 - Implemented a two-platoon system working 24 hours on-duty and 24 hours off-duty

1923 - Put into service, 2 Indian motorcycles for responses to still alarms

1944 - Placed ambulance into service "Crash Truck"



Fire Department Historical Overview

1948 - Opened airport fire station at Charleston International Airport. Equipped with a single engine and car

1967 – CFD purchased their first diesel powered motorized fire apparatus

1972 – CFD purchased its first non-red fire apparatus a white Mack CF600 placed into service as Engine company 2

1973 – CFD began purchasing lime-yellow apparatus which lasted for a 15 year period

1973 – CFD purchased and placed into service its first elevating platform. A 75 foot Mack/Pierce Snorkel

1974 – CFD changed from two-platoon system 24/24 to a three-platoon system 24/48

1975 – The CFD began integration of all fire companies. Previously all Ladder companies were staffed by African-Americans, and Engine companies were staffed by Caucasians

1979 – Placed first rescue company into service Truck 1. Responded out of Fire Station 10 West of the Ashley and was cross-staffed by crew of Engine Company 10

1981 - Calvin C. Allen was the first African-American promoted to the rank of Battalion Chief in the CFD

1989 - Hurricane Hugo devastated the City of Charleston

1991 - Albright & Wilson Americas Inc. chemical plant explosion. Resulted in the formation of the CFD Hazardous Materials Response Team

1992—SS Santa Clara I, chemical spill of magnesium phosphide at the Charleston Terminal of the State Ports Authority

2007 - Sofa Superstore Fire. Resulted in the deaths of nine Charleston Firefighters and led to sweeping changes for the department

2010 - The Fire Marshal Division was reinstated as a result of the Sofa Superstore Fire

2015 - CFD receives a Class 1 Public Protection Class (PPC) rating in May, and became an internationally accredited fire department in August

2017 - CFD placed order for first ever Heavy Rescue apparatus to be delivered mid to late 2018.

2018 - CFD Placed Heavy Rescue 115 into service in November

2018 – Daniel M. Curia was sworn in as the 12th official Fire Chief for the Charleston Fire Department in its 136 year history

Charleston Fire Chiefs

Frank L. O'Neill (1882-1894)

O. G. Marjenhoff (1894-1906)

Louis Behrens (1907-1932)

John H. Wohlers (1933-1942)

George W. Stout (1942-1943)

Norman G. Olsen (1943-1957)

Fred Shokes (1958-1967)

Wilmot E. Guthke (1967-1992)

Russell B. Thomas, Jr. (1992-2008)

Ronald Classen (Interim 2008)

Thomas Carr (2008-2012)

Franklin Finley (Interim 2012)

Karen E. Brack (2012-2017)

John Tippett (Interim 2017)

Joseph Roberts (Interim 2018)

Daniel M. Curia (2018 – Present)



Fire Department Highlights 2018

- June 16, 2018 Fire Station 21 opened at 1155 Cainhoy Road. Housing Engine 121 and Tender 121.
- July 2018, Chief Daniel M. Curia sworn in as the twelfth Fire Chief of the Charleston Fire Department.
- August 8, 2018 Fire Station 14 opened at 3005 Memorial Drive. Housing Engine 114 and Battalion 104.
- August 24, 2018 ground breaking ceremony held for new Fire Station 11.
- November 26, 2018 the CFD placed into service its first Heavy Rescue, replacing Engine Company 115 on Coming Street.
- First set of Holmatro Rescue tools placed into service, replacing Hurst Rescue Tools.
- December 12, 2018 the CFD placed new Engine 114 in service.
- December 13, 2018 the CFD placed new Engine 109 into service.
- Converted Engine 117's LDH supply hose from 4" to 5" increasing water flow capabilities.
- Squad 101 EMS QRV was removed from pick-up style vehicle and placed into a Tahoe for increase maneuverability.
- Assistant Chiefs Krusen and Vanhoy were promoted to the rank of Deputy Chief.
- Department received approval and acceptance of Annual Compliance Report for Accreditation from the Center for Public Safety Excellence.
- Technical Rescue Team staffed Urban Search & Rescue squads during Hurricane Florence.
- Members of the CFD Technical Rescue Team and HAZMAT Team were deployed to Horry County as part of SC Task Force 3 during Hurricane Florence.
- CFD HAZMAT and Other Units provided support for the 41st Annual Cooper River Bridge Run.
- Marine 101 provided escort to the US Navy's Ralph H. Johnson during commissioning.
- Members of the CFD received training in Tactical Emergency Casualty Care (TECC).
- The CFD hosted pilot program for NFPA Fire Officer III from the SC State Fire Academy.
- CFD HAZMAT Team received a Port Security Grant totaling \$49,050.00 for purchase of one backpack style radiological detection device.
- The CFD Wildland Team assisted The Nature Conservancy and the Francis Marion Forestry with 8 pre-scribed burns to reduce threat of wildfires.
- The CFD graduated a total of 18 new firefighters through two recruit schools which included the first Fast-track Program.
- The CFD implemented its first dedicated Recruitment Officer to help address diversity in the fire service.

Budget & Finance

2018 Approved Fire Department Budget

Fire Division : \$ 31,943,437

Fire Training Division: \$ 1,308,232

Fire Marshal Division: \$ 1,041,330

Total Fire Department Budget: \$ 34,292,999

*Note: Apparatus purchases are not included.

Authorized Full-time Employees (FTEs)

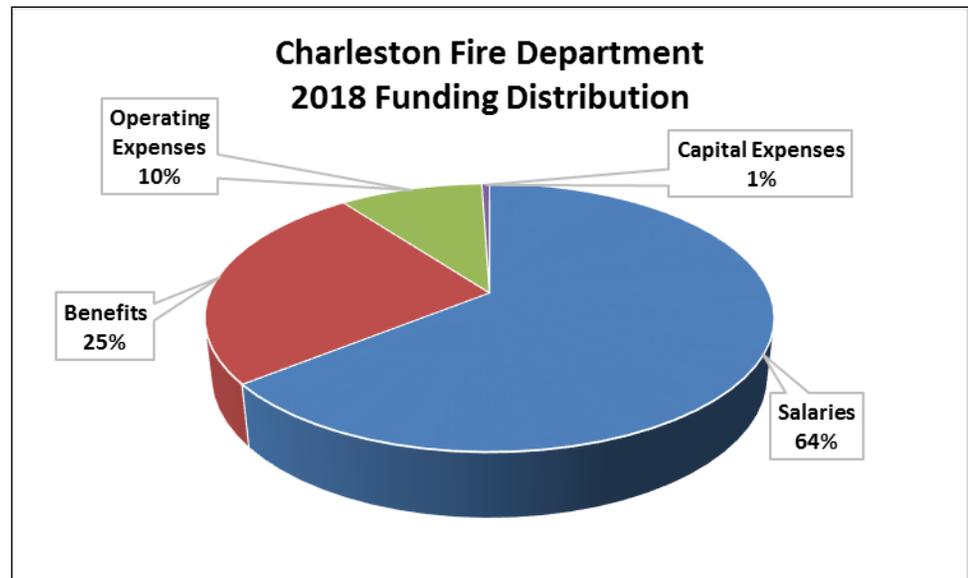
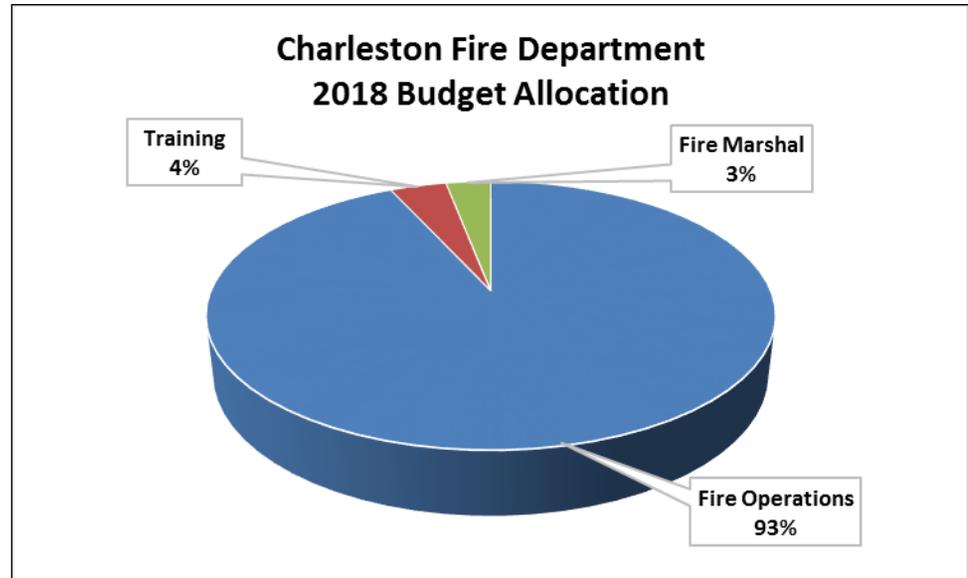
Uniformed/Sworn Firefighters: 366

Civilians/Non-sworn: 26.5

Cost per Capita: \$231.49



Fire Sprinkler Control Training



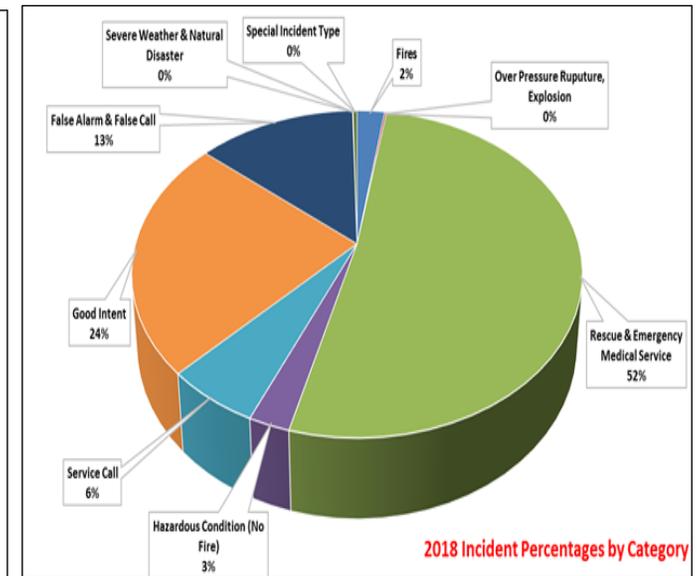
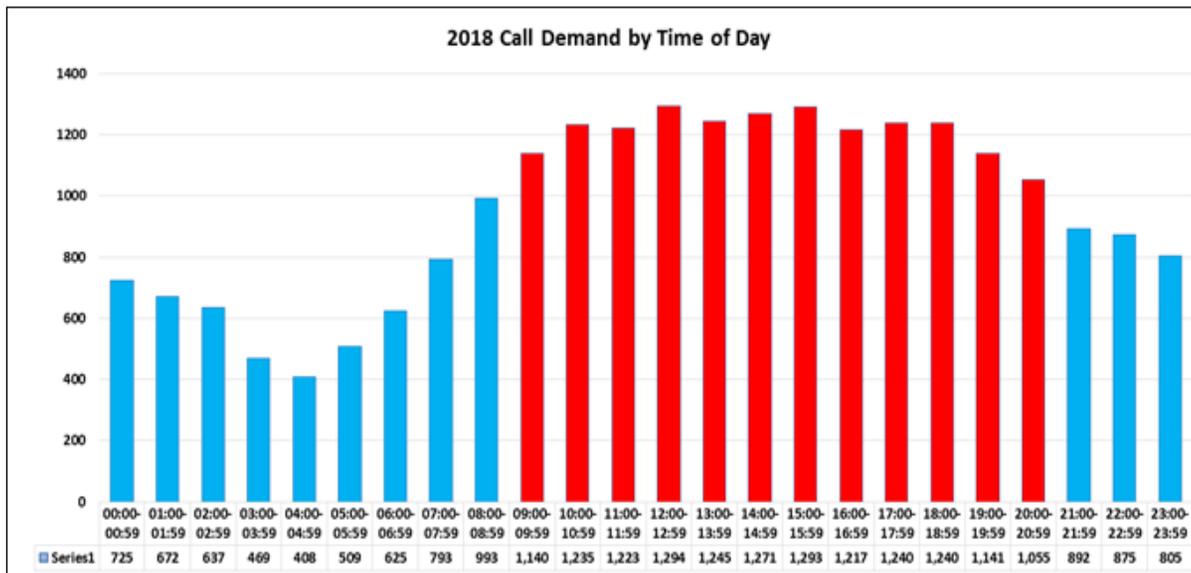
2018 Incident Responses / Demand for Services

The Charleston Fire Department responded to 22,997 calls for service in 2018.

Rescue and Emergency Medical Service (EMS) incidents accounted for 51.52% of the call volume.

General Categories of Incident Types	Number of Incidents
Fires	544
Overpressure, Rupture, No Fire	39
Rescue, EMS	11,849
Hazardous Condition	578
Service Call	1,329
Good Intent Call	5,463
False Alarm & False Call	3,107
Severe Weather, Natural Disaster	13
Special Incident	75
Total Incidents	22,997

2018 Busiest Companies	
Company	Responses
Battalion 103	2,071
Engine 106	2,772
Ladder 104	2,142
Tender 121	141
Squad 101	1,807



2018 Incident Response Performance

Response time performance is measured in accordance with the requirements of the Center for Public Safety Excellence for the purpose of ensuring timely service delivery and maintaining accreditation. Response measurements are taken in each of the following areas and measured against the benchmark:

Benchmark: nationally considered best practice used to compare actual performance. The benchmark is a goal the department is trying to meet or improve upon.

Call Process: amount of time it takes for the dispatch center to answer the 911 call and dispatch the appropriate resources.

Turnout Time: amount of time it takes for personnel and apparatus to get en route to the call once dispatched.

Travel Time First Unit: amount of time it takes for the first unit to drive to the scene.

First Unit Arrival: amount of time it takes for the first unit to arrive on scene from the time the call was received.

ERF (Effective Response Force): time it takes for a predetermined sufficient amount of personnel to arrive on scene to mitigate the incident effectively.

Due to the low number of structure fires occurring in rural areas (less than 10) within the city limits, data was insufficient for calculating response time elements for 90% performance.

Urban: land area with a population density of at least 1,000 people or more per square mile.

Moderate Risk Structure Fires: fires occurring in single family residential buildings.

High Risk Structure Fires: fires occurring in multi-family residential buildings, commercial businesses, manufacturing facilities, schools, churches, etc.

2018 - 90% Performance for Urban Moderate Risk Structure Fires						
	Call Processing	Turnout Time	Travel Time 1st Unit	Travel Time ERF	Total Response Time 1st unit	Total Response Time ERF
Benchmark	0:01:00	0:01:00	0:04:00	0:09:30	0:06:00	0:11:30
Baseline	0:01:30	0:01:20	0:05:19	0:09:16	0:07:29	0:12:49
Total Incidents Analyzed					179	173

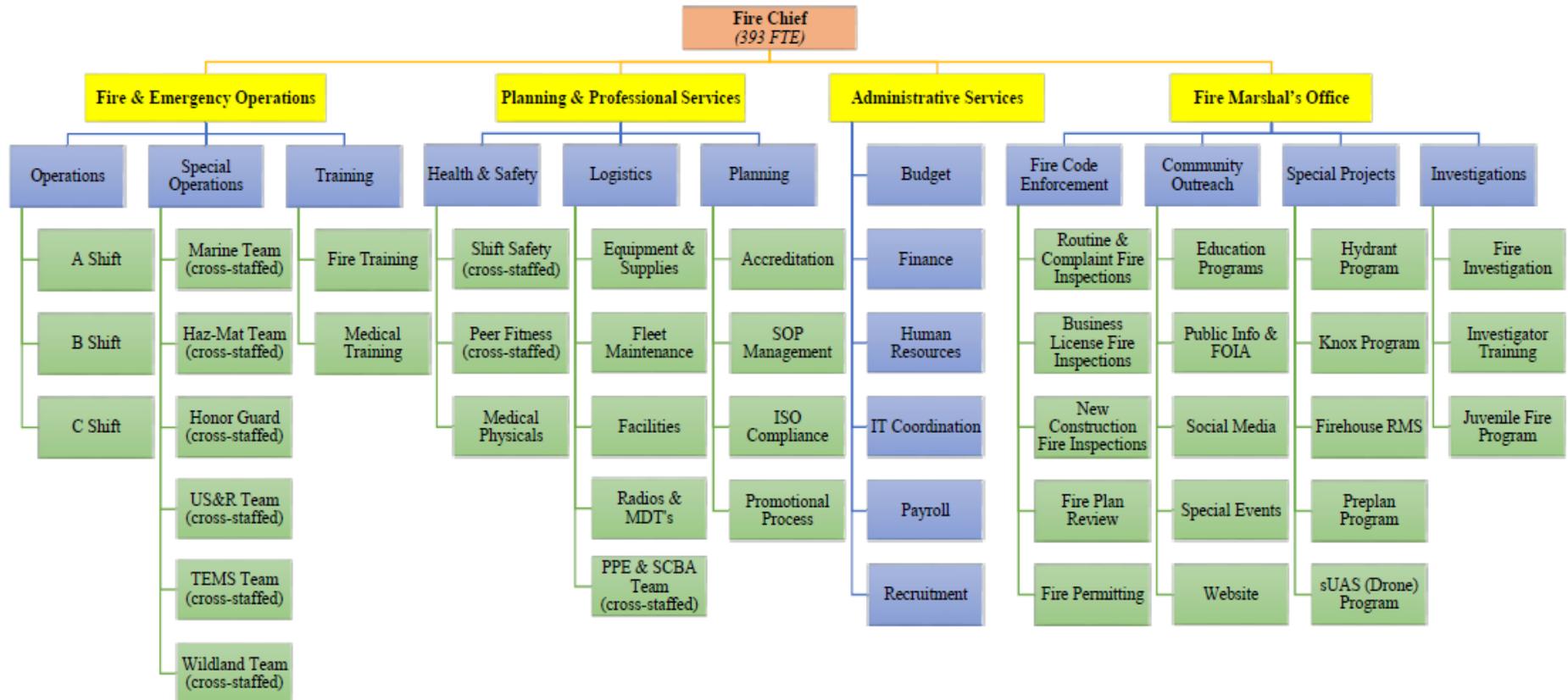
2018 - 90% Performance for Urban High Risk Structure Fires						
	Call Processing	Turnout Time	Travel Time 1st Unit	Travel Time ERF	Total Response Time 1st unit	Total Response Time ERF
Benchmark	0:01:00	0:01:00	0:04:00	0:09:30	0:06:00	0:11:30
Baseline	0:01:45	0:01:27	0:04:08	0:08:22	0:06:45	0:12:43
Total Incidents Analyzed					132	129



CHARLESTON FIRE DEPARTMENT

Organizational Structure

Date: 2/27/2019



Charleston Fire Department Command Staff



Fire Chief
Daniel M. Curia

The Command Staff is focused on carrying out the mission, vision, values of the agency by providing oversight and management of the department on a day-to-day basis acting as representatives of the fire chief. They are responsible for the development of standard operating procedures, developing a yearly work plan, ensuring that personnel are provided with proper tools and equipment to perform their job, and to act as advisors to incident commanders during emergency situations. The Command Staff helps to maintain a proper span of control to ensure the organization's efficiency.



**Chief Curia On-scene of a Fire
Occurring on the Peninsula**

**Position
Currently
Vacant**

**Fire & Emergency
Operations
Deputy Chief**



**Planning & Professional
Services
Deputy Chief
Jason Krusen**



**Fire Marshal's Office
Chief Fire Marshal
Mike Julazadeh**



**Administrative Services
Manager
Cassandra McSwain**

Administrative Services



**Fire Department
Recruiter
Engineer
Jason Dunigan**



**Finance
Coordinator
Lynn McDonnell**



**Human Resources
Coordinator
Kelty Foster**

Position
Currently
Vacant

**Assistant
Administrative Services
Manager**

The Administrative Division is managed by the Administrative Services Manager. The Administrative Division provides oversight of the department's day-to-day operations including: budget, finance, human resources, IT coordination, payroll, and recruitment.

**Administrative
Specialist
Fire Marshal
Division
Sybil
Richardson**



**Administrative
Specialist
Training Division
Ashley Blake**



**Administrative
Specialist
Savetria Hamilton**



**Administrative
Specialist
Fire Marshal
Division
Catoncea Brunson**

Fire & Emergency Operations

The primary focus of the Fire and Emergency Operations Division is to protect the lives and property of the citizens and visitors of Charleston. This focus is maintained through a commitment to the health, wellness, safety, and operational readiness of the division's personnel. The Division is led by the Deputy Chief of Fire and Emergency Operations and two (2) assistant chiefs. The deputy chief ensures 24/7 operational readiness and carries out the directives of the fire chief. One assistant chief provides day-to-day coordination of the three (3) shifts, one assistant chief oversees the special operations section. The department's Training Division falls under the direction of the Fire and Emergency Operations Deputy Chief.

Field operations are broken down into four (4) geographic battalions. Each battalion contains three (3) to seven (7) individual companies that staff strategically located fire stations. The battalions are supervised by twelve (12) battalion chiefs (four [4] per shift, one of which serves as the shift commander) who command three (3) shifts of captains, engineers, assistant engineers, and firefighters. Personnel are assigned to one (1) of three (3) working shifts (A,B,C). The shift schedule is a combination 24 hours on duty and 48 hours off duty. The department maintains four (4) special operations teams for technically challenging incident response: HAZMAT, Marine, Technical Rescue and Wildland Urban Interface. Specialty areas are explained in the subsequent pages.

Assistant Fire Chiefs



Assistant Chief of Operations
Joseph Roberts

Position
Currently
Vacant

Assistant Chief of Special Operations



Crews Operating at an Apartment Fire



Ladder 104 Operating on Structure Fire Downtown Charleston

Shift Commanders

Position
Currently
Vacant

A-Shift
Battalion 103
Battalion Chief



B-Shift
Battalion 103
Battalion Chief
Forrest Cockcroft



C-Shift
Battalion 103
Battalion Chief
William Perez

Fire & Emergency Operations: Types of Apparatus

The CFD provides fire suppression and emergency medical response using a myriad of equipment and fire apparatus. Equipment and apparatus are chosen based on the type of risk identified in the City of Charleston's jurisdictional boundaries. All engine and ladder companies are equipped to perform fire suppression tactics and provide emergency medical care at the basic life support level of service. The CFD works cooperatively with Charleston and Berkeley County Emergency Medical Services to provide EMS care.



Tractor Drawn Aerial Ladder Truck: Capable of reaching the seventh floor of a building, provides steering capabilities over the rear wheels of the trailer for increased maneuverability. Typically referred to as a tillered ladder.



Fire Pumper or Engine: Carries 750 gallons of water and is able to pump 1,500 gallons per minute when supplied from a fire hydrant or drafting. Carries a variety of equipment.



Water Tender: Used to transport water for fire fighting in areas that do not have hydrants. Carries 2,000 gallons of water and is able to quickly unload into a portable drop tank.



Light & Air Truck: Vehicle equipped with onboard air compressor for filling cylinders on scene, generator and light tower, along with on scene rehabilitation equipment.



Tower Ladder: This apparatus is equipped with a platform at the end of its ladder to transport personnel and victims. Carries a variety of equipment to perform forcible entry, rescue/extrication, and perform fire suppression tasks.



Command Vehicle: Transports the Battalion Chief to the scene of emergencies and provides the necessary equipment utilized for Incident Command. The Vehicle also serves as a fixed Command Post.



Central Station: Engine 102 & 103
262 & 264 Meeting Street



Battalion 103 & Engine 106
5 Cannon Street



Engine 108
370 Huger Street



Headquarters/ Station 9
Engine 109 & HAZMAT 101
1451 King Street Extension



Ladder 104 & Engine 115
162 Coming Street



Battalion 105 & Engine 113
358 Folly Road



Engine 107
1173 Fort Johnson Road



Tower 105 & Engine 110
1 Nicholson Street

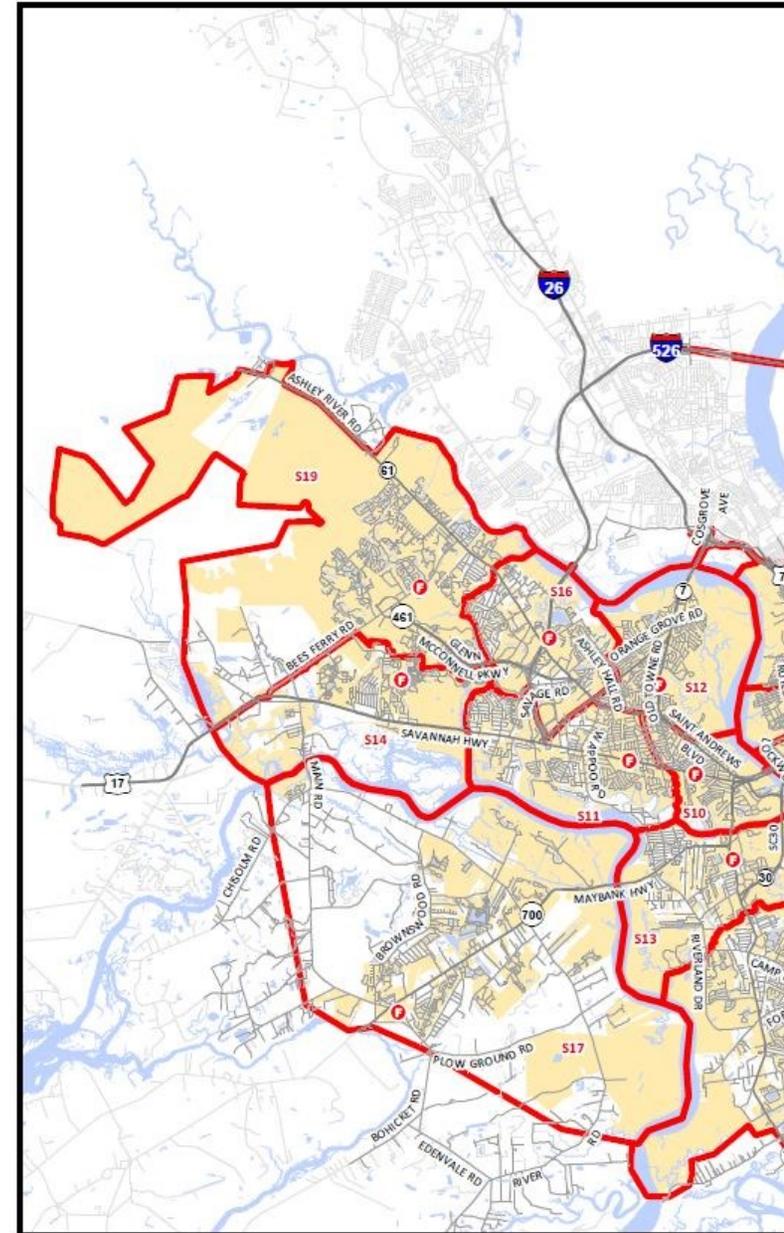


Engine 117 & Brush 102
1830 Bohicket Road

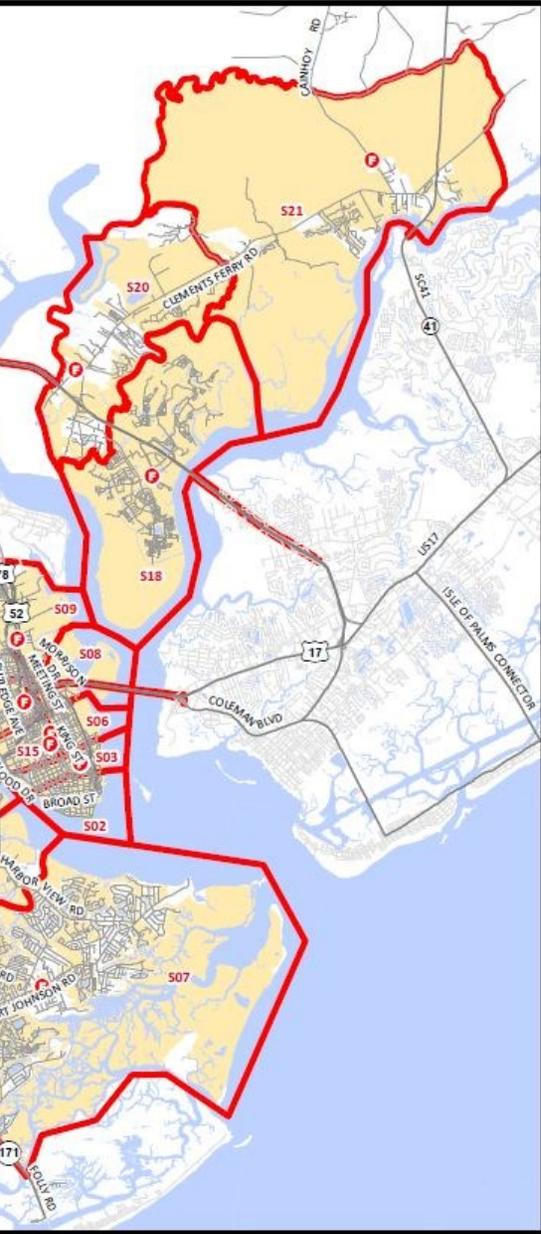


Battalion 104 & Engine 114
3005 Memorial Drive

Fire & Emergency Operations



Fire Station Locations & Districts



Fire Response Areas
City of Charleston

- City Fire Stations
- Highways
- Streets
- Charleston County streets
- Fire Response Areas
- Water
- City of Charleston

1 inch = 15,000 feet

0 5,000 10,000 20,000 Feet

0 0.5 1 2 3 4 5 Miles

Important Disclaimer Notice
The City of Charleston makes no warranty, representation, or guaranty as to the content, sequence, accuracy, timeliness, or completeness of any information provided herein or derived from the mapping data for any reason. The City of Charleston explicitly disclaims any representations and warranties, including, without limitation, the implied warranties of merchantability and fitness for a particular purpose. The user knowingly waives any and all claims for damages against any and all of the entities comprising the City of Charleston that may arise from the mapping data.

Map created 3/26/2019

City of Charleston
Department of Information Technology
GIS Division
2 George St, Suite 2800
Charleston, SC 29401
www.charleston-sc.gov

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Engine 111
1517 Savannah Hwy.



Engine 112 & Air 101
1352 Old Towne Road



Engine 116
81 Ashley Hall Plantation Road



Engine 119 & Tower 102
1985 Bees Ferry Road



Battalion 106, Ladder 101,
Engine 118
235 Seven Farms Drive



Engine 120 & Brush 120
1006 Pinefield Road



Engine 121 & Tender 121
1155 Cainho Road

Fire & Emergency Operations: Special Operations - Marine Team

The Charleston Fire Department Marine Team provides a professionally trained response team to maritime emergencies in the greater Charleston area. This includes, but is not limited to, shoreline, near shore and off shore areas of the Charleston Harbor.

The Louis Behrens named after the third chief of the fire department (call sign Marine 101), is a 36' Metal Craft Firestorm Fireboat. The vessel is equipped with a 3,000 GPM fire pump that was delivered to Charleston and placed in service late 2012. Marine 101 is crossed staffed by Engine Company 102 with a minimum crew of four trained maritime personnel.

The Marine Team is comprised of 24 members, 13 certified/qualified M101 pilots, 19 certified as USCG-OUPV licensed Captains. The Marine Team is led by Captain Rob Fulmer who reports to the Assistant Chief of Special Operations. Members of the Marine Team as well as other Charleston Fire Department personnel participate in the Charleston County Marine Incident Response Team (MIRT) and the Charleston Metro Marine Unit.



Marine 101 in Operation on the Cooper River

SEA TIME

The Marine Team spent a total of 1,500 hours underway in 2018, performing various missions that included: training, emergency response, and harbor safety

TRAINING

Each member of the Marine Team averaged between 150-200 hours of marine training in 2018.

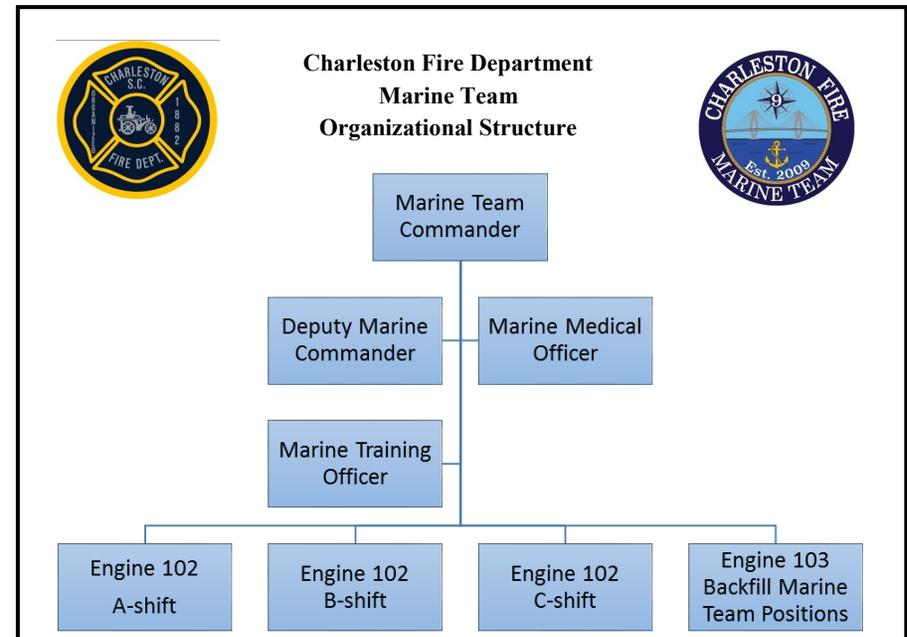


**Marine Commander
Captain Robert Fulmer**

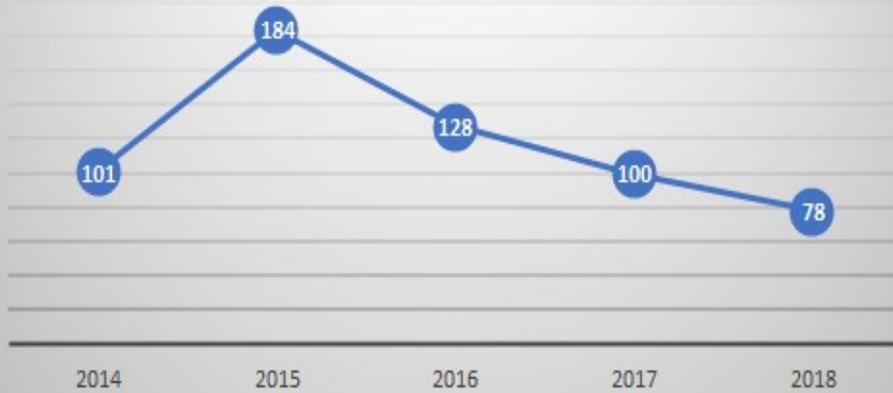
**Deputy Commander
Captain John Rogers**

**Marine Medical Officer
FF/PM Ryan Wood**

**Training Officer
Captain T.J. Axson**



Marine 101 Incident Responses 5 Year Comparison



Local Marine assets participating in National Safe Boaters Week at the Charleston Maritime Center.



Divers utilizing Marine 101 as a platform to conduct security sweeps of the State Ports Authority prior to commissioning of the USS Ralph H Johnson.

2018 Marine 101 Responses by Month



Fire & Emergency Operations: Special Operations - HAZMAT Team



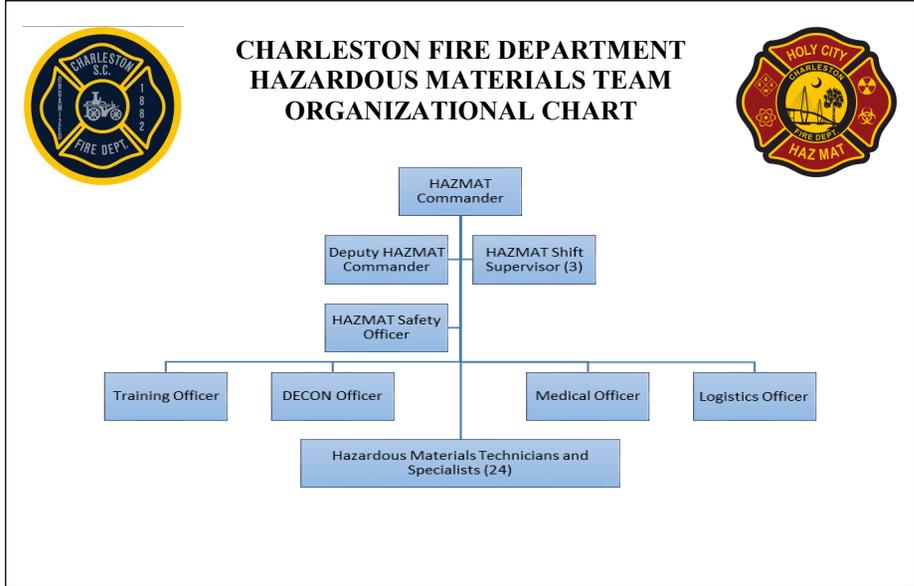
**HAZMAT
Team Commander
Captain
Mathew Fogliano**



**Deputy Commander
Engineer Nicholas Boyer**

**HAZMAT Safety Officer
Captain Kevin Weeks**

**HAZMAT Training Officer
Engineer Ryan Brunke**



The Charleston Fire Department operates a FEMA Type II Hazardous Materials Response Team with 34 personnel. The Team is comprised of personnel distributed throughout the department’s three shifts. A four-person crew from Engine 109 cross staffs the response vehicle, HAZMAT 101. Cross staffing occurs when crews staff a primary response vehicle and switch over to staff a specialized vehicle when it is needed for specific emergency incidents. Personnel on the team are certified HAZMAT Technicians, Clandestine Lab Technicians, and Weapons of Mass Destruction (WMD) Technicians. Members of the team also serve on the Regional Response Team for Hazardous Materials Response and WMD incidents. The team is subject to callout on a regional and statewide basis.

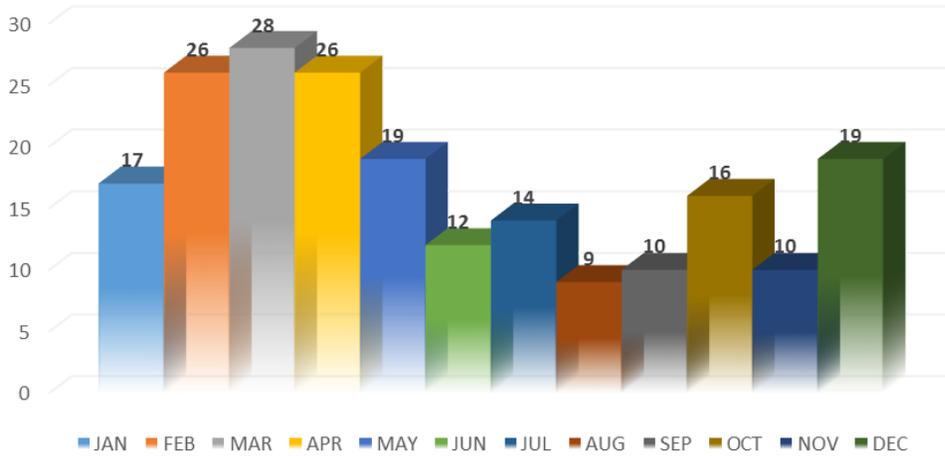
The team is currently led by Captain Matthew Fogliano who reports to the Assistant Chief of Special Operations. The HAZMAT Team Commander is assisted by a Deputy Commander, HAZMAT Safety Officer, and HAZMAT Training Officer.

In 2018 the HAZMAT Team responded to 206 calls for service.



**HAZMAT 101 on Incident West Ashley at the
St. Andrews Shopping Center**

2018 HAZMAT 101 RESPONSES BY MONTH



Members of The CFD HAZMAT Team Participating in Regional Operational Readiness Exercise

HAZMAT 101 Incident Response History 5 Year Comparison



Fire & Emergency Operations: Special Operations -

Technical Rescue (TRT)/Urban Search & Rescue (USAR) Team

The Charleston Fire Department Technical Rescue Program/Team exists to provide emergency response to a wide variety of technical rescue possibilities within the City of Charleston’s jurisdiction and the State of South Carolina. The team has the capability to mitigate the following types of incidents: high and low angle rope rescue, trench rescue, confined space rescue and standby, structural collapse, advanced vehicle extrication, machinery extrication, urban and rural land search, storm response, and support operations for large scale events.

In November of 2018, the CFD placed into service a dedicated Heavy Rescue Company that replaced Engine Company 115 located on Coming Street. Rescue 115 as it is called is staffed with four personnel three of which must be certified Rescue Technicians. The addition of this specialized unit has increased the capabilities of the CFD to respond to and mitigate high risk incidents.

Captain Anthony Morley leads the Technical Rescue/USAR Program and reports to the Assistant Chief of Special Operations. The USAR Team Commander is assisted by a Deputy Commander, USAR Safety Officer, and USAR Training Officer.



Heavy Rescue 115 parked out in front of the Coming Street Fire Station where it is housed.



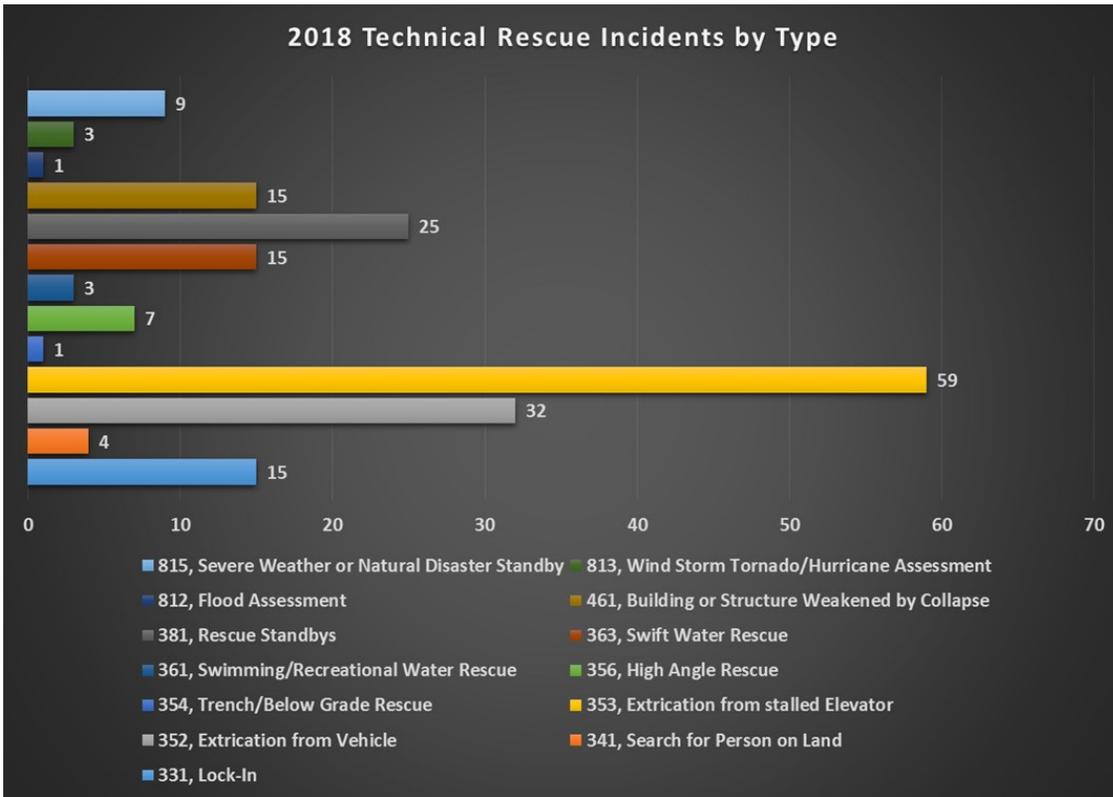
USAR Commander
Captain
Anthony Morley

Deputy Commander
Captain Tom Horn

USAR Safety Officer
Captain Jerry Warren

USAR Training Officer





Driver's Side View of Equipment on Rescue 115



Confined Space Rescue Operations



High-Angle Rescue Training



Search Operations during Hurricane Florence

Fire & Emergency Operations: Special Operations - Wildland Urban Interface

The Wildland Team exists to address the risk of fires occurring in areas of the city where developments encroach on forests. The team has the capability to provide for mitigation of the following types of incidents: Wildland fire extinguishment and containment, structural triage, and assistance to federal, state and local agencies. The team is developing a skill set and training responders in the department to be better prepared to operate in the Wildland Urban Interface (WUI) areas of the city as it continues to grow into the suburban areas.

The CFD Wildland Team has eight (11) team members, four (4) of which have obtained US Forestry Service Red Card Certification. Calls will be responded to using on-duty personnel, and prescribed burns and management tasks will utilize off-duty personnel when available. There is some basic equipment and PPE that is located on Brush 117, Brush 120, Tender 121, and designated Wildland Stations 17, 18, 20 and 21.

Currently the team is led by Captain Zsolt Szoke of Station 18 located on Daniel Island.



Crews Operating at a Wildland Incident

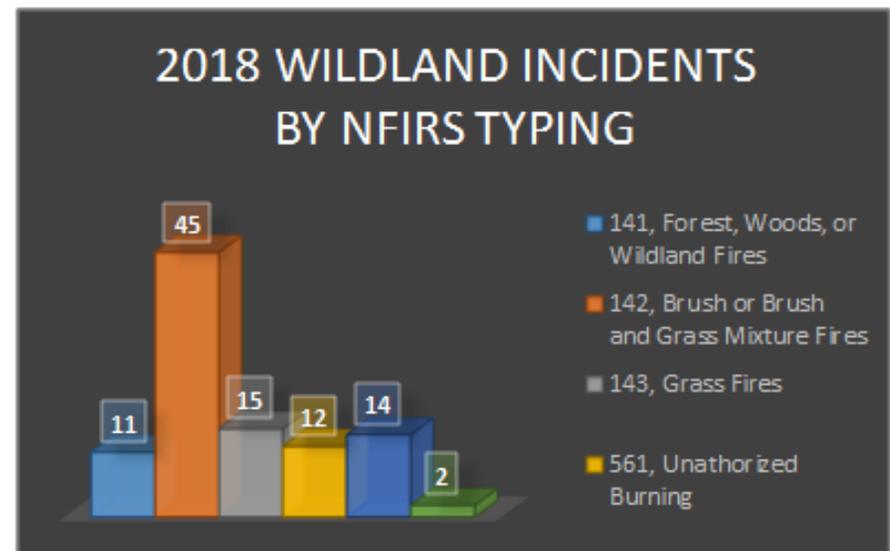


**Wildland Urban Interface
Commander
Captain Zsolt Szoke**

**Deputy Commander
Captain Chris Derrick**



Members of the Wildland Team Instructing New Recruits on the Skills Necessary to Combat Wildland Fire Incidents



Fire & Emergency Operations: Special Operations - Honor Guard

The Honor Guard is comprised of twenty-one (21) trained personnel that work together as a ceremonial unit and led by Battalion Chief David Griffin. Their primary role is to provide funeral honors for fallen emergency responders as well as stand guard at their calling hours. The Charleston Fire Department Honor Guard also serves as the “guardians of the colors” as they escort and display the national flag at ceremonial occasions including departmental graduations, departmental promotions, and community, statewide, and national events.

Members of the Honor Guard are required to attend training and ceremonies to remain active with the team. Each October, four (4) members travel to Emmitsburg, Maryland to participate in the National Fallen Firefighters Memorial Weekend at the National Fire Academy. They work in concert with other emergency service honor guards to honor fallen firefighters. The Honor Guard deploys approximately 20 -25 times per year.



CFD Honor Guard in Action.



**Honor Guard Commander
Battalion Chief
David Griffin**

**Deputy Commander
Captain Justin L. Williams**



Fire & Emergency Operations: Fire Training Section

The Training Section supports the CFD in its mission of preserving life and property. They do this by ensuring a level of professionalism in everything they do. Training staff provides training, education, and personal development opportunities to all of our firefighters and officers.

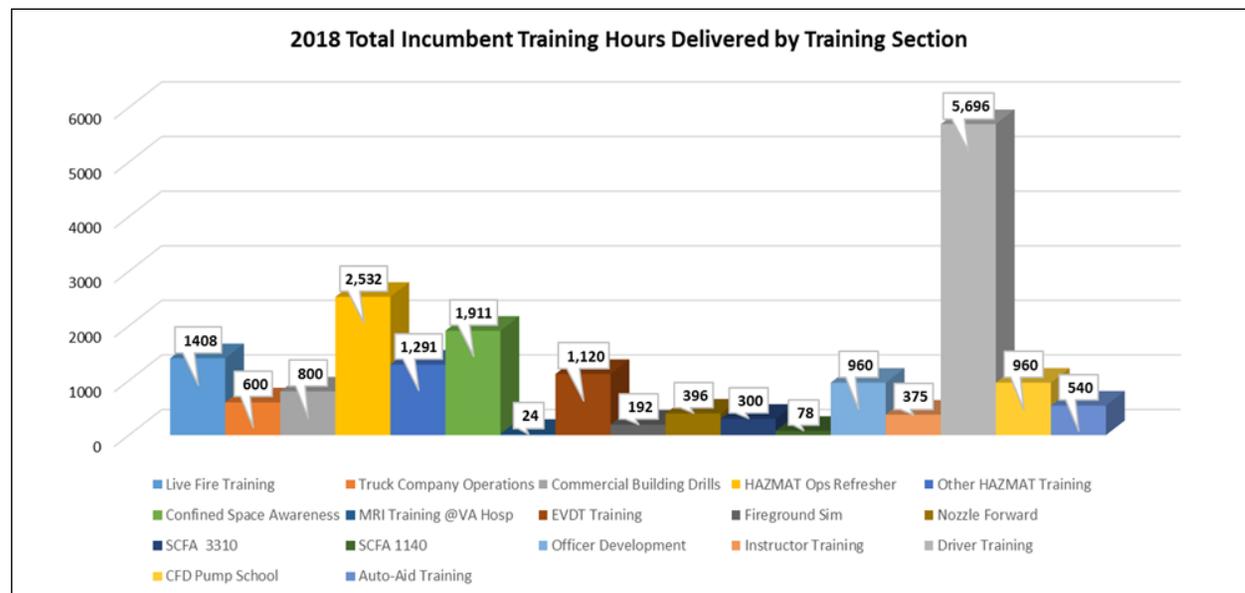
The Training Section is led by Training Director Robert Baldwin, who reports to the Deputy Chief of Fire and Emergency Operations. The department has a total of thirty-eight (38) South Carolina Fire Academy Certified instructors in its ranks. Six (6) of the thirty-eight (38) are assigned to the Training Section. The remaining personnel are assigned to the Operations Division and provide support to the Training Section as adjunct instructors when not working their assigned shift.



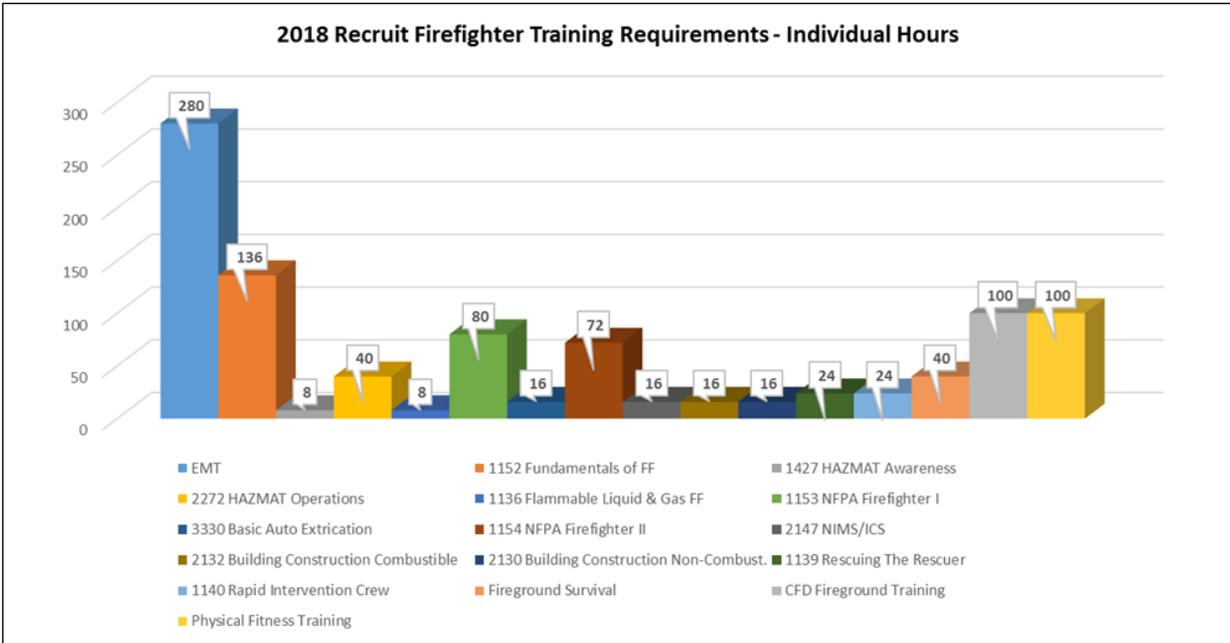
CFD Members Participating in Flammable Liquid and Gas Fire Fighting Training Exercise



**Training Director
Battalion Chief
Robert Baldwin**



Fire & Emergency Operations: Fire Training Section



Various Training Evolutions Being Conducted at the CFD Training Facility on Milford Street



Fire & Emergency Operations: Fire Training Section



Recruit Class 1801



Firefighter Water Survival Training



Training on Removal of a Downed Firefighter



Recruit Class 1802 - Graduates of the CFD's first Fast-track Class

Fire & Emergency Operations: Medical Response & Training

The Charleston Fire Department’s Emergency Medical Program provides oversight to medical operations to ensure high quality patient care in the non-transport/emergency setting and perform community outreach to improve bystander intervention rates in regards to Bleeding Control and CPR. Day to day management of the program is provided by the program coordinator, Paramedic Alfonso Procoppio and functions as part of the CFD’s Training Section. Medical oversight for licensure is provided by William Brett McGary, MD an Associate professor at the Medical University of South Carolina specializing in Emergency Medicine.

The CFD Medical program encompasses the following areas: Medical Operations, Special Medical Operations, Medical Documentation/Oversight, Medical Community Outreach, Medical Logistics, Credentialing, and the CFD Recruit EMT Academy. The CFD is licensed to provide Basic Life Support Emergency Care through land based non-transport resources and Advanced Life Support Emergency Care through its Marine assets.



**CFD Medical Director
William Brett
McGary, MD**



**CFD Medical Program
Coordinator
Paramedic
Alfonso Procoppio**



**Members of City Council
Participate in CPR Training
through Fire Ops 101**



**Squad 101 is the CFD’s Medical Quick Response
Vehicle staffed with Two EMTs on the Peninsula
during Peak Operation Times**



**CFD Personnel Honing Skills Needed for
Implementation of High Performance
CPR Protocols**

Planning & Professional Services

The Planning and Professional Services is an integral part of the CFD and is overseen by Deputy Chief Jason Krusen, and assisted by an Assistant Chief along with three (3) battalion chiefs. The Battalion Chiefs oversee three divisions; Health and Safety, Technical Services, and Accreditation for the department. The division is responsible for the strategic planning, capital projects, promotional process, grants, policies and guidelines, health and safety, technical services, and accreditation for the fire department.



Member of the PPE Team repairing Turnout Gear



Member of the PPE Team testing protective liners of Turnout Gear

Position
Currently
Vacant

**Assistant Chief of
Planning &
Professional
Services**



**Ground Breaking Ceremony for the
New Fire Station 11 on Savannah
Hwy next to the Sofa Superstore
Firefighter Memorial Park**

Planning & Professional Services: Health & Safety

The program manages safety, health and wellbeing of the employees of the CFD. The program is responsible for tracking all personal injuries and vehicle collisions, drug testing, annual hose testing, peer fitness, safety inspections of vehicles and fixed facilities, coordinating annual physicals, conducting annual fit testing and investigating any safety related issues brought to the CFD's attention. The information that is received is used to track trends and proposes actions to reduce injuries, collisions or time away from work.

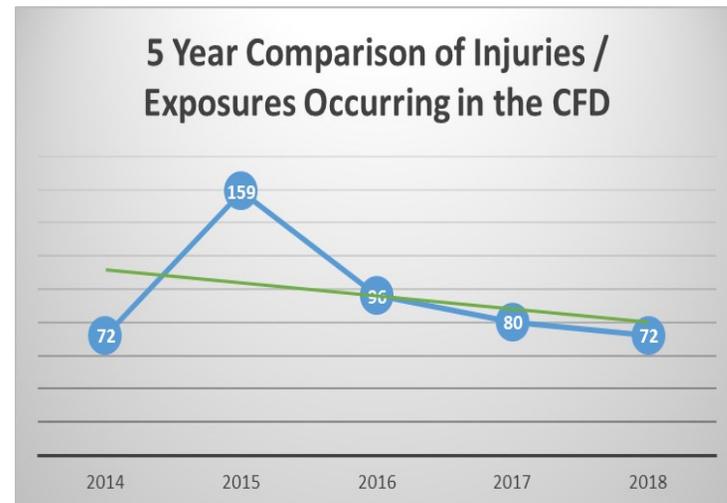
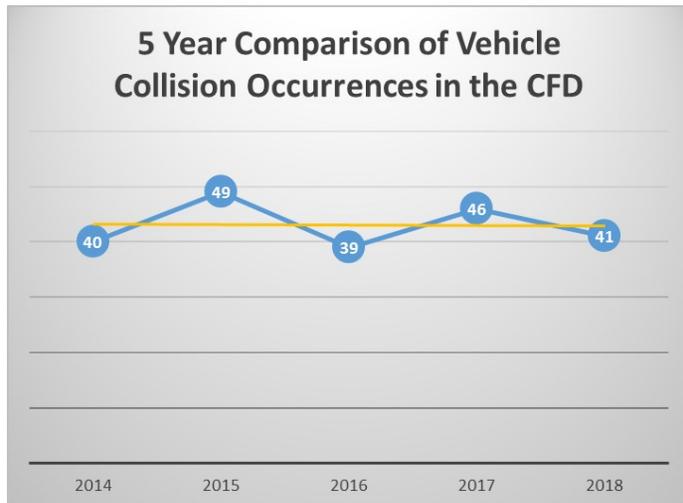
The Health and Safety Officer is responsible for this section and reports to the Deputy Chief of Planning & professional Services. He is assisted by three (4) Deputy Safety Officers, one (1) per shift, one (1) in Training, and three (3) assistant safety officers. All four members of the Safety Section are certified safety officers through the Fire Department Safety Officer's Association (FDSOA). Battalion Chief Kenneth Jenkins leads the Health & Safety Section, along with providing oversight for the CFD Peer Fitness Program.



Health & Safety Officer
Battalion Chief
Kenneth Jenkins



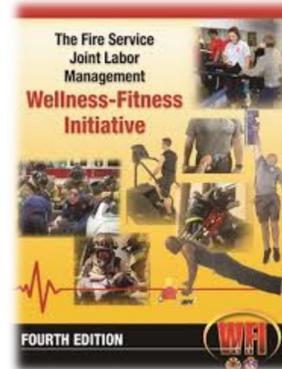
- Deputy Safety Officer A-shift**
Captain Alan King
- Deputy Safety Officer B-shift**
Captain Alford Brewington
- Deputy Safety Officer C-shift**
Captain Donovan Richardson
- Deputy Safety Officer Training**
Captain Lance Williams
- Assistant Safety Officers**
Captain Daniel Chavous
Captain Kevin Weeks
Captain Chris Derrick



Planning & Professional Services: Health & Safety - Peer Fitness

In its continued effort to reduce on the job injuries and improve the health and wellness of its personnel, the Charleston Fire Department has adopted and implemented a Peer Fitness Training (PFT) Program. The Peer Fitness Program is set up to have knowledgeable and certified members in the field of health and wellness to guide members of the Charleston Fire Department in their continued goals of weight loss, rehabilitation from injuries, nutrition, or maintenance of current work out plan. This is achieved by having continual interaction, coaching, and monitoring of all personnel to ensure they have everything to succeed and remain healthy

A team of 6 personnel have been certified as peer fitness trainers to standards established in the Wellness Fitness Initiative (WFI). The WFI is a joint venture between the International Association of Fire Fighters (IAFF) and the International Association of Fire Chiefs (IAFC), in collaboration with the American Council of Exercise (ACE). The WFI seeks to promote wellness over time to maintain fit, healthy, and capable firefighters throughout their career and into retirement. The fire department's Health and Wellness program works with the City of Charleston's Wellness Coordinator.



**Peer Fitness Team Leader
FF Joshua Turner**



**CFD Member working Out on
Stair Climb Machine at HQ**



CFD member utilizing workout facility at Fire Station 14



Fitness Facility at CFD Headquarters

Planning & Professional Services: Technical Services Section

The Logistics Section oversees logistics, facility management and fleet maintenance. This section is currently led by Battalion Chief Greg Chesher who reports to the Assistant Chief of Planning & Professional Services. He has direct oversight of the Logistic Section's daily operations. Logistics, fleet maintenance, facilities, radios & MDTs, and the PPE/ SCBA Team are managed by the section chief.

Staff generally work Monday through Friday, but are subject to after-hours call back based on department needs. In addition, the division coordinates maintenance projects at the department's 19 worksites, new station construction, renovations of existing facilities, and up fitting of automotive apparatus. Our fleet team maintains and repairs the departments 22 front line response apparatus, reserve units, fire boat, as well as a fleet of emergency and non-emergency passenger vehicles.



**Architectural Model of the
New Fire Station 11**



**Logistics Section
Battalion Chief
Greg Chesher**

Planning & Professional Services: Technical Services Section-Logistics

Logistics is responsible for ensuring that station repairs are completed in a timely manner. This section is also responsible for issuing and tracking uniforms, personal protection equipment (PPE), loose tools and equipment, and issuing supplies to maintain facilities. Logistics maintains a cache of replacement equipment and protective clothing.



View from Thermal Imager



**Thermal Imaging Camera
used by CFD Firefighters**

Position
Currently
Vacant

Logistics Coordinator

Planning & Professional Services: Technical Services Section - Fleet Maintenance

Fleet Services is comprised of Lead Mechanic Bill Palmer and two fire mechanics: Joe Waters and Joseph Williams. These mechanics are certified Automotive Services Excellence (ASE) and Emergency Vehicle Technicians (EVT). Fleet Services is responsible for ensuring that equipment, vehicles and apparatus are kept mechanically sound and ready to respond to emergencies. Fleet Services performs the maintenance on all small engine powered equipment, equipment operated through electrical power supply as well as hydraulic equipment. Fleet Services oversees annual third-party testing of aerial ladders, ground ladders, and fire pumps on apparatus.



Rescue 115 in production at Pierce Manufacturing in Appleton, Wisconsin



**Lead Mechanic
Bill Palmer**



New Engine 109 being outfitted with hose and equipment



The new Engine 109 and Engine 114 prior to delivery to the CFD



Members of the CFD shop and Truck Committee evaluating Demo Tower Ladder

Planning & Professional Services: Technical Services Section - SCBA Maintenance Program

Self-Contained Breathing Apparatus (SCBA) are worn by all fire department personnel operating in atmospheres that are considered to be Immediately Dangerous to Life and Health (IDLH). The SCBA Maintenance Program ensures: the department has an adequate quantity of properly trained SCBA Technicians, an adequate supply of approved SCBA replacement parts on-hand, and all SCBAs are tested at least once annually, and repaired as needed.

The CFD has ten (10) personnel certified to test and repair SCBAs. The program is conducted by using personnel when they complete their normal work shift.

<u>2018 SCBA Maintenance Statistics</u>
Turnaround time for repairs 24-48 hours
397 SCBAs Flow Tested
270 SCBA repairs made
38 air cylinders repaired
8 face pieces repaired
65 SCBA's upgraded
136 air cylinders hydro tested
2,471 work hours logged by SCBA Technicians



SCBA/PPE Program Manager
Captain Albert Grazianni



Planning & Professional Services: Technical Services Section - PPE Maintenance

The Personal Protective Equipment (PPE) Program works in conjunction with the SCBA Maintenance Program. Members working in this program are cross-trained as SCBA Repair Technicians. This program performs annual testing of the protective clothing ensemble worn by firefighters. The ensemble provides limited thermal protection from elevated temperatures encountered during firefighting operations. Technicians clean, inspect, and repair components of the ensemble at least annually or as needed.

This program ensures that all personnel have proper protection to perform firefighting operations and reduces the downtime of gear being out of service. This program has increased efficiency by having in-house personnel trained to perform testing and repairs, virtually eliminating the need to send the gear off to an outside vendor for routine cleaning, inspection, and repair.

<u>2018 PPE Maintenance Statistics</u>
1,227 pieces of Turnout Gear inspected.
456 miscellaneous repairs made to Turnout Gear.
264 pieces of Turnout Gear cleaned in addition to being inspected for use as crawl gear for training.
92 pieces of turnout gear removed from service due to life span exhaustion.
Average turn around time to clean inspect and repair gear is approximately 48 hours.

Planning & Professional Services: Planning Section

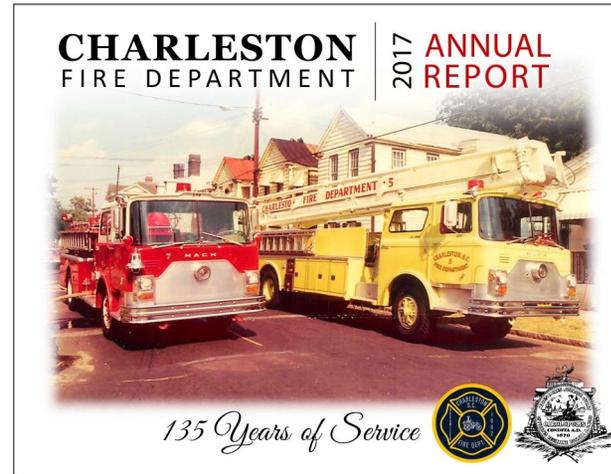
The Planning section of the division is responsible for maintaining the department's compliance with Accreditation, ISO Rating Schedule, SOP Maintenance, and Promotional Processes. The section is currently managed by the Accreditation manager who reports to the Deputy Chief of Planning & Professional Services.

The program manages and compares response data and statistics with nationally established benchmarks and departmental set baselines for emergency response. The program is responsible for maintaining the Accredited Status of the CFD, through submission of Annual Compliance Reports (ACRs) to the Center for Public Safety Excellence (CPSE), annually updating of the CFD Standard of Cover, monitoring of the completion status of recommendations made by the CPSE peer Review Team during initial accreditation on-site visit.

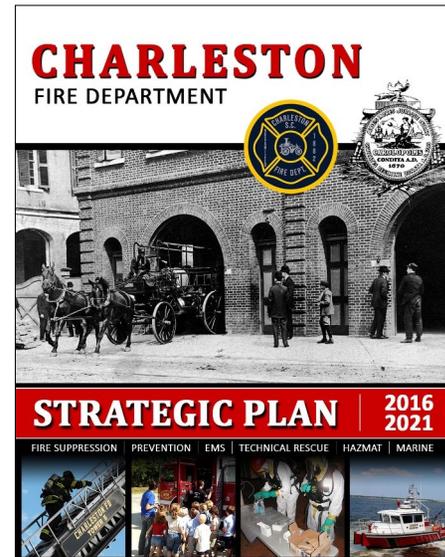
Maintaining the department's Insurance Services Office (ISO) Public Protection Class (PPC) rating at current level.

Monitoring the completion and progress of goals and objectives identified in the department's strategic plan.

Providing oversight for annual program analysis, ensuring standard operating procedures are reviewed and kept current, publishing monthly response data and statistics for dissemination to all CFD personnel, and publishing an annual fire department report.

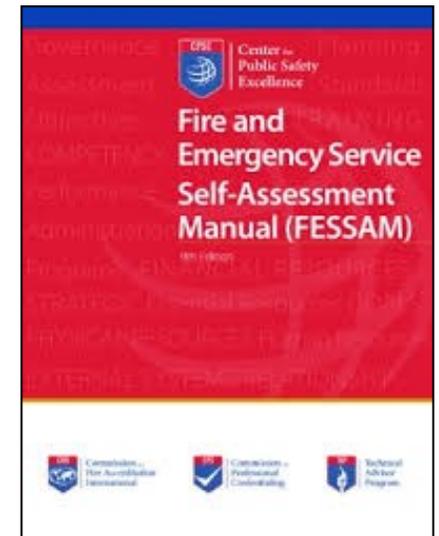


**Accreditation Manager
Battalion Chief
Michael Hanuscin**



**Asst. Accred. Mngr.
Captain Kyle Weiss**

**Data Manager
Asst. Engineer
Steven Burzynski**



Fire Marshal Division

Our dedicated staff strive to preserve life and property through community safety education, effective fire inspections, detailed fire plan reviews, and comprehensive fire investigations. Each of these elements are critical in order for the department to expand its community risk reduction mission and promote preventative strategies.

The division was created in July 2010 with the responsibilities of the Fire Code Official being transferred from the Building Official to the newly created Fire Marshal position. The move organized the elements of fire prevention and community risk reduction within one (1) division. Our team has set out to build robust fire prevention programs to reduce the potential loss of life while preserving the community.

The division is currently responsible for conducting fire safety surveys of new and existing buildings, business license fire safety inspections for new licenses, reviewing plans for fire code compliance, conducting fire and arson investigations, and coordinating a variety of community risk reduction education and outreach programs. The division manages several elements for the department including: the Firehouse records management system, department website, social media, public information requests, news releases and media coordination, and coordinates the pre-fire plan and hydrant maintenance programs.

The Fire Marshal Division's community risk reduction strategies promote firefighter, citizen and community safety while preserving our historic community.



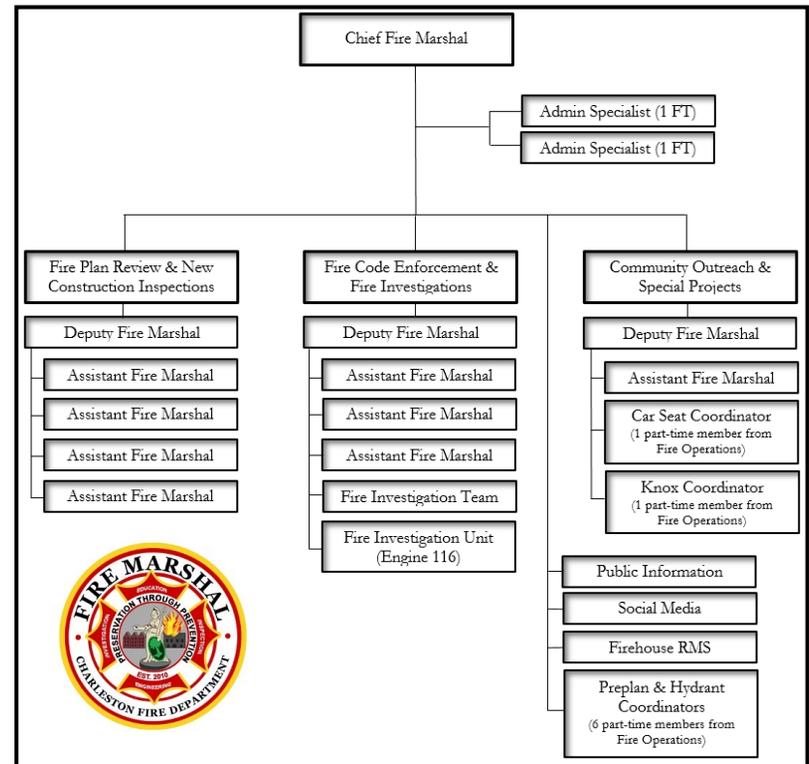
**Deputy Fire Marshal
Rick Fluegge**



**Deputy Fire Marshal
Josh Smith**



**Deputy Fire Marshal
Daniel Failla**



Fire Marshal Division: Community Risk Reduction

		2018							
Qt.	Month	Inspection		Reinspect		Plan Review		Total	
		Qt	Month	Qt	Month	Qt	Month	Qt	Month
1st	January		219		162		138		519
	February	746	272	446	136	472	156	1,664	564
	March		255		148		178		581
2nd	April		254		173		152		579
	May	855	286	475	170	570	239	1,900	695
	June		315		132		179		626
3rd	July		242		189		186		617
	August	699	298	475	188	632	245	1,806	731
	September		159		98		201		458
4th	October		235		125		218		578
	November	785	296	370	133	589	154	1,744	583
	December		254		112		217		583
		2018							
Totals		3,085		1,766		2,263		7,114	

2018 Inspections, Reinspections, and Plan Reviews



Members of the Fire marshal Division conducting testing of fire pump and suppression system

2018 Hydrant Inspections	
E102	181
E103	162
E106	101
E107	101
E108	137
E109	175
E110	144
E111	233
E112	134
E113	190
E114	35
E115	144
E116	309
E117	41
E118	380
E119	243
E120	92
E121	3
Hydrant Mngr.	58
Total Inspected	2863



Initial Plan Reviews -2018													
	Level 2 6-Days			Level 3 12-Days			Level 4 24-Days			Level 5 30-Days			Total
	Total on Goal	Total Received	% on Goal	Total on Goal	Total Received	% on Goal	Total on Goal	Total Received	% on Goal	Total on Goal	Total Received	% on Goal	% on Goal
Q1	146	167	87.4%	168	182	92.3%	14	15	93.3%	13	13	100.0%	93.3%
Q2	166	177	93.8%	151	162	93.2%	18	20	90.0%	27	37	73.0%	87.5%
Q3	96	110	87.3%	165	175	94.3%	38	40	95.0%	25	27	92.6%	92.3%
Q4	111	122	91.0%	165	171	96.5%	23	23	100.0%	4	4	100.0%	96.9%

Revised Plan Reviews - 2018													
	Level 2 4-Days			Level 3 6-Days			Level 4 12-Days			Level 5 15-Days			Total
	Total on Goal	Total Received	% on Goal	Total on Goal	Total Received	% on Goal	Total on Goal	Total Received	% on Goal	Total on Goal	Total Received	% on Goal	% on Goal
Q1	2	9	22.2%	37	47	78.7%	3	3	100.0%	5	7	71.4%	68.1%
Q2	14	15	93.3%	63	71	88.7%	17	20	85.0%	27	27	100.0%	91.8%
Q3	60	70	85.7%	82	86	95.3%	5	5	100.0%	30	30	100.0%	95.3%
Q4	15	17	88.2%	53	54	98.1%	6	6	100.0%	6	6	100.0%	96.6%

2018 Plan Review Compliance Chart

Fire Marshal Division: Public Education

Row Labels	Count	Adults	Children	Smoke Alarms	Car Seats
Apparatus Tours	198	523	622	0	0
Canvas (After the Fire)	11	72	1	2	0
Canvas (Pre Fire)	62	613	478	10	0
Car Seat Event (Checkpoint)	18	76	14	0	66
Car Seat Install	47	54	13	0	40
Career Day	6	165	860	0	0
Community Outreach Event	117	6091	7389	2	0
Detector Install, Inspection, or Battery Change	100	305	53	308	0
Display or Booth	19	2848	2597	0	0
Emergency & Response Training - Residents	2	82	0	0	0
Fire/Emergency Drill	2	80	1	0	0
Parade or festival	15	560	444	0	0
Safety Education - Information Distribution	3	19	24	0	0
Safety Presentation - Business	1	4	0	0	0
Safety Presentation - Business Association	2	95	0	0	0
Safety Presentation - General	8	158	55	0	0
Safety Presentation - School	61	419	2831	0	0
Safety Presentation - Seniors	9	309	0	0	0
Station Tour	117	295	312	0	0
Grand Total	798	12768	15694	322	106

2018 Summary of Community Outreach and Public Education



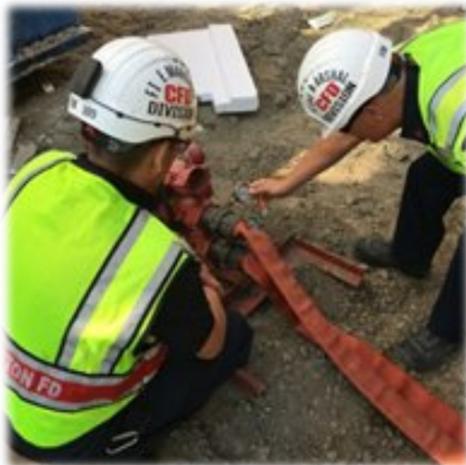
Public Education and Community Outreach Events

Fire Marshal Division: Fire Investigation

2018 Cause Report for all CFD cases	%	Count
Act of nature	1.04%	3
Cause under investigation	13.84%	40
Cause undetermined after investigation	22.49%	65
Cause, Other	2.77%	8
Failure of equipment or heat source	8.65%	25
Intentional	9.34%	27
Unintentional	41.87%	121
Grand Total	100.00%	289



Side by Side Burn



FMD Conducting Fire Flow Testing

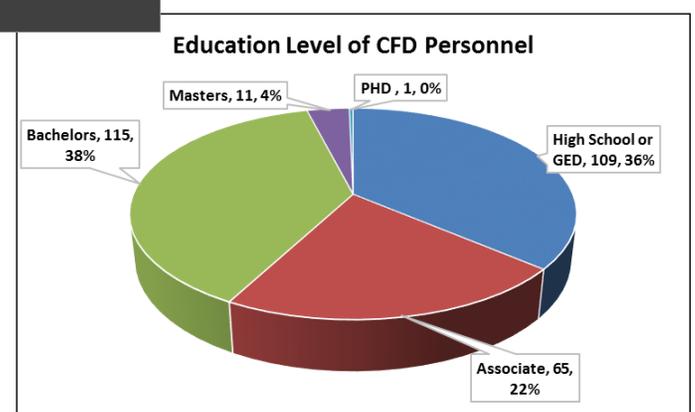
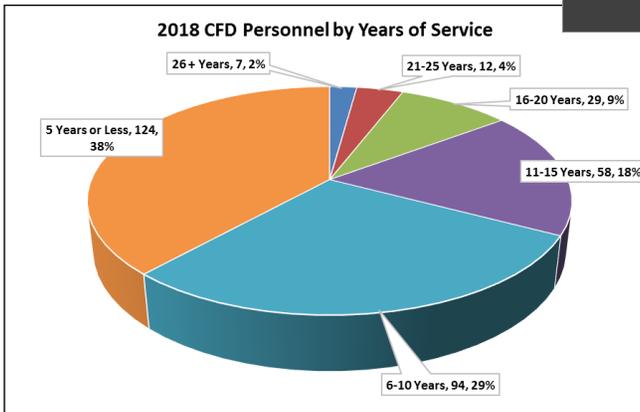
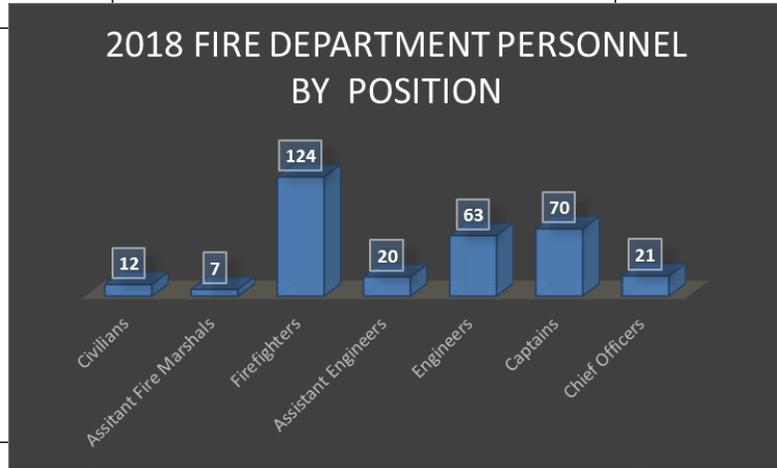
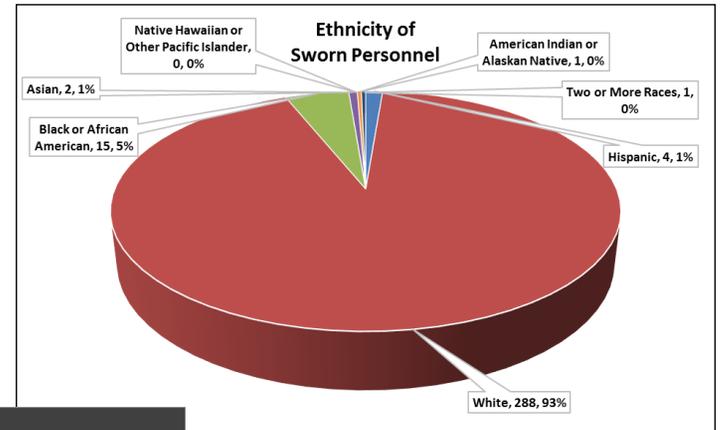
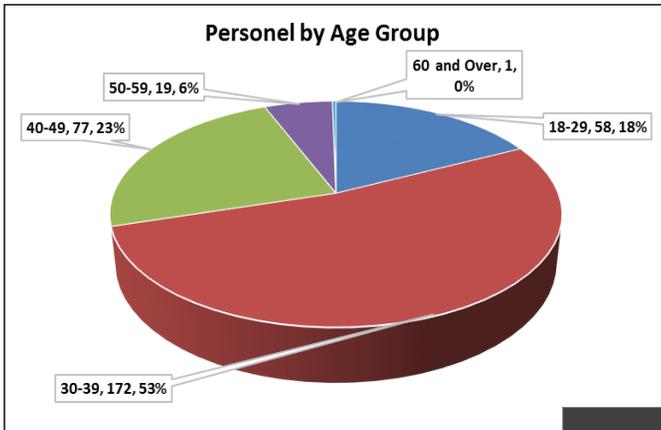
2018 Cause Report for Cases Investigated by the FMD	%	Count
Cause under investigation	6.06%	4
Cause undetermined after investigation	22.73%	15
Cause, Other	1.52%	1
Failure of equipment or heat source	15.15%	10
Intentional	15.15%	10
Unintentional	39.39%	26
Grand Total	100.00%	66

2018 Status for Cases Investigated by the FMD	%	Count
Investigation closed	74.24%	49
Investigation closed with arrest	4.55%	3
Investigation inactive	1.52%	1
Investigation open	19.70%	13
Grand Total	100.00%	66

We Are The Charleston Fire Department



Fire Department Demographics



Charleston Fire Department: 2018 Promotions

Deputy Fire Chiefs

Jason Krusen
Christopher Vanhoy

Battalion Chiefs

Laval Green
David Griffin

Deputy Fire Marshal

Daniel Failla, Jr.



Engineers

Ryan Beck
Tristan Davidson
Adam Davis
William Easterlin
Evan English
Samuel Farris
Sean Nolan
Travis O'Neill
John Petro
Ranoslav Petrovski
Matthew Scherder
Glen Scougale
Parker Shanks
Herbert Stafford
Casey Sullivan
Michael Sulivan
Matthew Wilder
Craig Willen

Assistant Engineers

David Baumgartner
Anthony DeSantis
Corey Hanson
John Havers
Devin Hodgman
Gray Kaelin
William Kovalczyk
Seth Miller
Patrick Moyer
Kenneth Pringle
Travis Randall
Scott McWethy
Chad Smith
Joshua Turner

2018 Retirees

Battalion Chief Brian Kropp
Battalion Chief Richard Williams

Captain Richard Harriss
Captain Patrick Hinson
Captain Bobby Wright, Jr.

Firefighter Greg Hayre

Administrative Specialist Debbie Brown



Batt. Chief Richard Williams
retired after serving the
citizens of the City of
Charleston for 33 years.

Charleston Fire Department: 2018 Service Awards

Fire Chief's Award of Excellence

Jason Dunigan

Chief Officer of the Year

Jack deTournillon

Captain of the Year

James Richardson

Engineer of the Year

Kyle Watkins

Firefighter of the Year

Chad Smith

Community Outreach

Kevin Weeks

Instructor of the Year

Jason Crosby

Excellence in Service Certificate

Jamal Goss

Knights of Columbus Firefighter of the Year

Christopher Vanhoy

Unit Citation

E106-A shift

Captain A. Glover

Asst. Engr. E. Polk

FF A. Crotty

FF R. Joly

L104-A shift

Captain M. Cain

Engr. S. Drexler

Engr. K. Riffe

Asst. Engr. C. Hanson

FF T. Caroe

B103-A shift

Batt. Chief R. Williams

New Life Award

Vincent Bellaran

Steven Burzynski

Demetrius Frye

William Haigler

Chad Smith

Jeremy Wright



Life Saving Award

Squad 101

A. Botti

M. Laderwager

J. Thatcher

C. Walker

Engine 102

J. Rogers

G. Mumpower

A. Suiter

B. R. Wood

C.

Engine 106

T. Miles

J. Petro

C. Donellan

T. Sohrweide

Engine 107

E. Henry

Glime

D. Baumgartner

M. Miller

Engine 108

D. Glover

E. English

M. Savage

J. Wright



Christopher Vanhoy
recipient of the Knights
of Columbus Firefighter
of the Year award for
2018.



Charleston Fire Department: 2018 Service Awards

Life Saving Award

Engine 109

M. Fogliano
N. Smith
D. Frye
H. Freeman

Engine 110

J. Harrison
T. Fulmer
M. Vanhorn
E. Ahlden

Engine 111

G. Justice
S. Farris
A. Hurst
J. Walker

Engine 111

D. Richardson
K. Land
J. Wujcik
E. McCreary
J. Adams

Engine 112

D. Rishardson
K. Land
R. Taylor
K. White



First Motorized Chief's Buggy in the CFD



Truck Company 14 a 1948 Mack Service Ladder Truck

Life Saving Award

Engine 115

A. Morley
B. Grisham
J. Crosby
N. Wall

Engine 116

J. Lemacks
S. Swigart
S. Miller
D. Novotny

Engine 117

B. Mizzel
R. Criscio
K. Hibbard
K. Lay

Engine 118

Z. Szoke
M. Wilder
J. Boucher
M. Laderwager

Engine 119

A. Brewington
C. Hanson
R. Taylor
C. Hallock

Engine 121

R. Petrovski

IN MEMORY OF CHARLESTON'S FALLEN

MAY THEIR SACRIFICE NOT BE IN VAIN,
BUT BE HONORED BY ALLOWING US TO LEARN FROM OUR PAST
AND PAVE THE WAY FORWARD.

A/ENGR T. GOFF - MAY 25, 1901

DRIVER G. H. SANDERS - JUNE 4, 1902

F.F. E. PARSONS - SEPTEMBER 9, 1902

ENGR. W. NELSON - NOVEMBER 27, 1902

CHIEF O. G. MARJENHOFF - DECEMBER 27, 1906

F.F. A. L. KNICKMEYER - OCTOBER 6, 1910

ACT CHIEF M. J. MORRIS - JULY 17, 1915

F.F. G. H. ZWINGMANN - SEPTEMBER 5, 1915

ENGR. M. L. PRINCE - MAY 27, 1916

F.F. J. F. BRAINOVICH - SEPTEMBER 4, 1916

CHIEF LOUIS BEHRENS - OCTOBER 12, 1932

F.F. J. W. HENDRICKS - MAY 7, 1957

CAPT. E.C. THOMAS - JULY 10, 1961

F.F. H. T. FOSBERRY - OCTOBER 19, 1965

ENGR. F. W. SHEPHARD - DECEMBER 9, 1985

ENGR. R. D. MORRIS - JUNE 29, 1991

F.F. A. TILLMAN - APRIL 2, 1999

CAPT M. BENKE - JUNE 18, 2007

CAPT. W. HUTCHINSON - JUNE 18, 2007

CAPT. L. MULKEY - JUNE 18, 2007

ENGR. B. BAITY - JUNE 18, 2007

ENGR. M. KELSEY - JUNE 18, 2007

ASST. ENGR. M. FRENCH - JUNE 18, 2007

F.F. M. CHAMPAIGN - JUNE 18, 2007

F.F. J. DRAYTON - JUNE 18, 2007

F.F. B. THOMPSON - JUNE 18, 2007



CHARLESTON FIRE DEPARTMENT

1451 KING STREET EXTENSION
CHARLESTON, SC 29405
HEADQUARTERS: (843)720-1981

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Battalion Chief
Michael Hanuscin