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.
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 Interim Fire Chief

The Charleston Fire Department (CFD) has a long and proud tradition of service to the community. It gives me great pride to present the 2017 Charleston Fire Department Annual Report on behalf of the 355 dedicated and professional men and women who deliver that service. This report will provide a snapshot of the deep commitment each and every member of the CFD demonstrates every hour of the day to fulfilling the mission of protecting the residents and visitors to our historic, growing and enchanting city.

The department continues to progress and improve its reliability through the various elements found in three tools: our stakeholder sanctioned strategic plan, CFAI accreditation criteria and ISO Class 1 requirements. The 2017 achievements outlined in this report illustrate how the department continues to build on the success of each previous year. Remaining operationally ready at all times, ensuring we use our resources efficiently and striving for perfection in all areas continue to be our guiding principles.

For 135 years, the Charleston Fire Department has been poised to render aid of all types at a moment’s notice. As the department enters its 136th year, this report proudly reinforces that the men and women of the department stand ready around the clock and calendar to perform our most important mission, helping others.

John B. Tippett, Jr.
Interim Fire Chief
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## 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.

<table>
<thead>
<tr>
<th>GOALS</th>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency Response</td>
<td>Workforce</td>
<td>Resource</td>
<td>Community</td>
<td>Training</td>
<td>Communications</td>
</tr>
<tr>
<td>Program</td>
<td>Development</td>
<td>Allocation</td>
<td>Risk Reduction</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## 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.
Department Historical Overview

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
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 $182,010,697 in 2015)
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
1974 - Fire department switched from a 24 hours on duty/24 hours off duty work schedule to a 24 on/48 off work schedule
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
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.

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)
Ronald Classen (Interim 2008)
Thomas Carr (2008-2012)
Franklin Finley (Interim 2012)
John Tippett (Interim 2017)
Fire Department Highlights 2017

- The Charleston Fire Department (CFD) celebrated its 135th year of providing service to the City of Charleston.
- The CFD held a memorial service for the 10th Anniversary of the Sofa Super Store Fire.
- The CFD minted a challenge coin to commemorate the department’s 135th anniversary & 10th anniversary of the Sofa Super Store Fire.
- Maintained accredited status from the Center for Public Safety Excellence by receiving approval of our 2nd Annual Compliance Report.
- Completed and published the CFD’s 2nd Annual Report for the 2016 calendar year.
- The CFD placed Tender 101 in service with two personnel at temporary Station location on Cainhoy Road.
- The CFD equipped all engine, ladder, and squad companies with Naloxone (NARCAN) to treat patients on emergency medical incidents experiencing opioid related overdoses.
- Placed Epinephrine Anaphylaxis kits in service on all frontline apparatus.
- Placed Beta Agonist medication and supplies in service on all frontline apparatus.
- The CFD received Port Security grant to purchase ChemPro 100I (Chemical identifier) and fifteen (15) SPRDs (personal radiation detectors).
- Twenty-eight (28) members of the HAZMAT Team attended Clandestine Laboratory Technician Training.
- The CFD hosted an eighty (80) hour HAZMAT Technician course delivered by the IAFF. Ten (10) CFD members received training. Ten (10) members from other agencies also attended this training course.
- The HAZMAT team delivered training to all operational personnel for Incident Response to Terrorist Bombings (IRTB).
- Technical Rescue Team successfully completed annual Operational Readiness Exercise, maintaining deployable status with the South Carolina Urban Search and Rescue Task Force Program for the third straight year.
- Technical Rescue Team staffed Urban Search & Rescue Squads during Hurricane Irma.
- Technical Rescue Team provided support for memorial events following the Mother Emanuel AME church shootings.
- Marine 101 became certified to conduct helicopter hoist operations with the United States Coast Guard.
Fire Department Highlights 2017 (Continued)

- The CFD fully implemented the use of Kronos Telestaff to manage daily staffing levels.
- Sixty (60) members of the CFD completed a Wildland Urban Interface Class.
- The Honor Guard participated in twenty-three (23) events in 2017.
- All three (3) shift Safety Officer deputies became pro-board certified as Incident Safety Officers and Health & Safety Officers.
- Four (4) Fire Inspector positions were converted to Assistant Fire Marshal positions.
- The Fire Marshal Division was moved into the PORS retirement system with the state.
- Implemented NFPA compliant color coding system for hydrants on the peninsula.
- A volunteer photographer/media specialist was added to the Fire Marshal Division in mid 2017.
- Knox Key secure devices placed on all apparatus.
- Increased the number of certified car seat technicians.
- Implemented our first college internship program within the Fire Marshal Division.
- Conducted water survival training for entire sworn department.
- Recorded 7,527 hours of medical training in Target Solutions.
- Painted and up fitted two (2) reserve engines to go into service as Engine 114 and 121 in mid 2018.
- Placed into service new apparatus replacements for Ladder 101, Engine 118, and Engine 119.
- Acquired four (4) Jon boats, motors, and trailers to be used for water rescue in flood prone areas prior to Hurricane Irma making landfall.
- Provided all personnel with Boonie Hats to provide additional protection from the sun.
- Re-convened the CFD’s Recruitment Committee.
- Launched an after-hours fitness program for non-sworn staff members.
Budget & Finance

2017 Approved Fire Department Budget

Fire Division: $29,427,457
Fire Training Division: $1,257,962
Fire Marshal Division: $989,943
Total Fire Department Budget: $31,675,362

*Note: Apparatus purchases are not included.

Authorized Full-time Employees (FTEs)

Uniformed/Sworn Firefighters: 331
Civilians/Non-sworn: 24.5

Engine 116 conducting pump operations training evolution.
2017 Incident Responses / Demand for Services

The Charleston Fire Department responded to 22,978 calls for service in 2017. Rescue and Emergency Medical Service (EMS) incidents accounted for 54.23% of the call volume.

<table>
<thead>
<tr>
<th>General Categories of Incident Types</th>
<th>Number of Incidents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fires</td>
<td>629</td>
</tr>
<tr>
<td>Overpressure, Rupture, No Fire</td>
<td>36</td>
</tr>
<tr>
<td>Rescue, EMS</td>
<td>12,461</td>
</tr>
<tr>
<td>Hazardous Condition</td>
<td>552</td>
</tr>
<tr>
<td>Service Call</td>
<td>1,099</td>
</tr>
<tr>
<td>Good Intent Call</td>
<td>5,278</td>
</tr>
<tr>
<td>False Alarm &amp; False Call</td>
<td>2,801</td>
</tr>
<tr>
<td>Severe Weather, Natural Disaster</td>
<td>41</td>
</tr>
<tr>
<td>Special Incident</td>
<td>81</td>
</tr>
<tr>
<td><strong>Total Incidents</strong></td>
<td><strong>22,978</strong></td>
</tr>
</tbody>
</table>

2017 Property Loss vs. Property Saved

- Property Loss: 3%
- Property Saved: 97%
2017 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.

### 2017 Urban Moderate Risk Structure Fires 90% Performance

<table>
<thead>
<tr>
<th></th>
<th>Call Processing</th>
<th>Turnout Time</th>
<th>Travel Time First Unit</th>
<th>Travel Time ERF</th>
<th>Total Response Time First Unit</th>
<th>Total Response Time ERF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benchmark</td>
<td>0:01:00</td>
<td>0:01:20</td>
<td>0:05:00</td>
<td>0:10:00</td>
<td>0:08:30</td>
<td>0:11:30</td>
</tr>
<tr>
<td>Baseline</td>
<td>0:01:20</td>
<td>0:01:00</td>
<td>0:05:31</td>
<td>0:08:47</td>
<td>0:07:11</td>
<td>0:11:47</td>
</tr>
</tbody>
</table>

Total number of moderate risk structure fires analyzed 31.

### 2017 Urban High Risk Structure Fires 90% Performance

<table>
<thead>
<tr>
<th></th>
<th>Call Processing</th>
<th>Turnout Time</th>
<th>Travel Time First Unit</th>
<th>Travel Time ERF</th>
<th>Total Response Time First Unit</th>
<th>Total Response Time ERF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benchmark</td>
<td>0:01:00</td>
<td>0:01:20</td>
<td>0:05:00</td>
<td>0:10:00</td>
<td>0:08:30</td>
<td>0:14:30</td>
</tr>
<tr>
<td>Baseline</td>
<td>0:01:36</td>
<td>0:01:06</td>
<td>0:03:59</td>
<td>0:07:16</td>
<td>0:06:27</td>
<td>0:10:31</td>
</tr>
</tbody>
</table>

Total number of moderate risk structure fires analyzed 29.

### 2017 Busiest Companies

<table>
<thead>
<tr>
<th>Company</th>
<th>Responses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battalion 103</td>
<td>1,972</td>
</tr>
<tr>
<td>Engine 106</td>
<td>2,242</td>
</tr>
<tr>
<td>Ladder 104</td>
<td>2,011</td>
</tr>
<tr>
<td>Squad 101</td>
<td>2,641</td>
</tr>
</tbody>
</table>

### (All Risks) 2017 EMS Incidents 90% Performance

<table>
<thead>
<tr>
<th></th>
<th>Alarm Handling</th>
<th>Turnout</th>
<th>Travel</th>
<th>Total Response Time</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0:01:44</td>
<td>0:01:36</td>
<td>0:06:40</td>
<td>0:08:49</td>
</tr>
<tr>
<td>n=9920</td>
<td>n=9920</td>
<td>n=9676</td>
<td>n=9676</td>
<td></td>
</tr>
</tbody>
</table>

* n= number of incidents analyzed for calculation
Charleston Fire Department Command Staff

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.

Interim Fire Chief
John B. Tippett, Jr.

Deputy Chief of Training and Technical Services
Mike Julazadeh

Deputy Chief of Operations
Vacant

Chief Fire Marshal
Mike Julazadeh

Administrative Services Manager
Cassandra McSwain

CFD crews operating at the EME Apartment Fire on James Island in June 2017.
Charleston Fire Department Administrative Division

The Administrative Division is overseen by the fire chief and is managed by the Administrative Services Manager. The Administrative Division provides oversight of the department’s day-to-day operations including: implementation of written directives, accreditation, human resource functions, recruitment, retention, budget, finance, and purchasing.
The primary focus of the 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 Operations Division is led by the Deputy Chief of 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 Health & Safety Officer also reports to the Deputy Chief of Operations.

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

- **Assistant Chief of Special Operations**
  - Jason Krusen

### Shift Commanders

- **A-Shift**
  - Battalion 103
  - Battalion Chief
  - Richard Williams

- **B-Shift**
  - Battalion 103
  - Battalion Chief
  - Forrest Cockcroft

- **C-Shift**
  - Battalion 103
  - Battalion Chief
  - William Perez

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**Crews operating at structure fire located at 1410 Sherwood Drive.**

**Land Based Crews and Fire Boat working multiple vessel fire at the Ashley Marina.**
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

Tower 105 & Engine 110
1 Nicholson Drive

Battalion 105 & Engine 113
358 Folly Road

Engine 107
1173 Fort Johnson Road

Engine 117 & Brush 102
1830 Bohicket Road
Fire Station Locations & Districts

Battalion 104 & 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 101
1006 Pinefield Road

Tender 101
Temporary Fire Station 21
1055 Cainhoy Road
Operations Division: Emergency Medical Response/Fire Suppression

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.

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

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.

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.

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 equipment necessary to command the incident scene from start to finish.
Operations Division: Safety Section

The Safety Section ensures that the Charleston Fire Department meets or exceeds industry best practices for providing a safe working environment for employees. The section is responsible for promoting safety and reducing employee exposure to needless risk, tracking all personnel injuries and vehicle collisions, coordinating annual physicals for firefighters, and performing safety inspections of equipment, vehicles, and fixed facilities.

The Health and Safety Officer is responsible for this section and reports to the Deputy Chief of Operations. He is assisted by three (3) Deputy Safety Officers, one (1) per shift and two (2) 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 Safety Section.

Vehicle Collisions 5 Year Comparison

<table>
<thead>
<tr>
<th>Year</th>
<th>Vehicle Collisions</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>28</td>
</tr>
<tr>
<td>2014</td>
<td>40</td>
</tr>
<tr>
<td>2015</td>
<td>49</td>
</tr>
<tr>
<td>2016</td>
<td>39</td>
</tr>
<tr>
<td>2017</td>
<td>46</td>
</tr>
</tbody>
</table>

Injuries/Exposures 5 Year Comparison

<table>
<thead>
<tr>
<th>Year</th>
<th>Injuries/Exposures</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>23</td>
</tr>
<tr>
<td>2014</td>
<td>72</td>
</tr>
<tr>
<td>2015</td>
<td>159</td>
</tr>
<tr>
<td>2016</td>
<td>96</td>
</tr>
<tr>
<td>2017</td>
<td>80</td>
</tr>
</tbody>
</table>

Health & Safety Officer
Battalion Chief
Kenneth Jenkins

Deputy Safety Officer A-shift
Captain Alan King
Deputy Safety Officer B-shift
Captain Justin L. Williams
Deputy Safety Officer C-shift
Captain Donovan Richardson
Assistant Safety Officers
Captain Daniel Chavous
Captain Kevin Weeks
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 Herbert Scott, 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 2017 the HAZMAT Team responded to 240 calls for service.
HAZMAT Team members attending training class for Preventive Radiological and Nuclear Detection sponsored by the Domestic Nuclear Detection Office.

HAZMAT 101 responded to an overturned DOT-406 tanker truck loaded with 8,500 gallons of gasoline. Crews were able to limit spillage of contents to 25 gallons. Products were off loaded before tanker truck was up righted.

Captain Fogliano operating controls during flaring of a damaged propane tank during training.

HAZMAT Team members attended two-day training class on how to handle propane cylinder leaks, which included product transfer and flaring from damaged containers.
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.

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.
Above and Below: TRT Members participate in annual operational readiness exercise at the state fire academy.

<table>
<thead>
<tr>
<th>Incident Type</th>
<th>Incidents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lock-in</td>
<td>19</td>
</tr>
<tr>
<td>Land Search</td>
<td>2</td>
</tr>
<tr>
<td>Building extrication</td>
<td>4</td>
</tr>
<tr>
<td>Vehicle extrication</td>
<td>42</td>
</tr>
<tr>
<td>Elevator rescue</td>
<td>1</td>
</tr>
<tr>
<td>Trench rescue</td>
<td>1</td>
</tr>
<tr>
<td>High-angle rescue</td>
<td>1</td>
</tr>
<tr>
<td>Machinery rescue</td>
<td>2</td>
</tr>
<tr>
<td>Swimming/recreational</td>
<td>3</td>
</tr>
<tr>
<td>Swift Water</td>
<td>14</td>
</tr>
<tr>
<td>Structure collapse</td>
<td>19</td>
</tr>
<tr>
<td>Flood assessment</td>
<td>6</td>
</tr>
<tr>
<td>Storm assessment</td>
<td>4</td>
</tr>
<tr>
<td>Natural disaster stand by</td>
<td>6</td>
</tr>
</tbody>
</table>

2017 Technical Rescue Incidents

Members of the TRT and Marine team conducting training in the use of John Boats for use during floods for evacuating and rescuing trapped civilians.

TRT Members prepare to staff quick response units prior to Hurricane Irma impacting Charleston.
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 26 members, 11 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.

**SEA TIME**

The Marine Team spent a total of 1,500 hours underway in 2017, performing various missions that included: training, emergency response, and harbor safety.

**TRAINING**

Each member of the Marine Team averaged 130 hours of marine training in 2017.

Marine 101 participated in National Safe Boater’s Week
* Note: Marine 101 was out of service during the months of November and December 2017 for a major haul out and overhaul.

Marine 101 with new paint livery in its lift at the Charleston Harbor Pilots.

Members of Marine Division and Charleston Metro Marine Unit participated in joint training exercise.

<table>
<thead>
<tr>
<th>Alarm Handling</th>
<th>Turnout</th>
<th>Travel</th>
<th>Total Response Time (ERF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0:19:42</td>
<td>0:03:17</td>
<td>1:14:43</td>
<td>1:25:46</td>
</tr>
<tr>
<td>n=100</td>
<td>n=97</td>
<td>n=59</td>
<td>n=59</td>
</tr>
</tbody>
</table>

* n = number of incidents used in calculation

2017 Marine 101 Responses by Month
Operations Division: Special Operations - Wildland Urban Interface Team

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 twelve (12) team members, five (5) 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 101, Brush 102 and designated Wildland Stations 17, 18, 20 and 21. Station 21 currently houses Tender 101.

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

<table>
<thead>
<tr>
<th>(All Risks) 2017 Wildland Incidents 90% Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alarm Processing</td>
</tr>
<tr>
<td>------------------</td>
</tr>
<tr>
<td>0:03:06</td>
</tr>
<tr>
<td>n=56</td>
</tr>
</tbody>
</table>

*n = number of incidents analyzed for calculation

Wildland Team members participated in training in Horry County

Wildland Urban Interface Commander
Captain Zsolt Szoke

Deputy Commander
Captain Chris Derrick

Brush Truck 101 is one of two off road vehicles used to combat wildfires by the CFD.

Members of the CFD Wildland Team attend training in the Francis Marion Forest.

Members practice emergency shelter deployment
The Honor Guard is comprised of twenty-one (21) trained personnel that work together as a ceremonial unit and led by Captain 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.

Peer Fitness Training Program

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. A team of personnel has 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.
The Training & Technical Services Division is an integral part of the CFD. The division is overseen by a Deputy Chief, assisted by Assistant Chief Christopher Vanhoy along with two (2) battalion chiefs. The division is responsible for the research, development, and delivery of all training to the fire department whether it is annual recertification, recruit or new technology training in the field of fire or EMS.

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.

The CFD took delivery of two (2) new Pierce Pumper Engines in 2017 to replace Engines 118 and 119. Engine 118 is serving the residents of Daniel Island while Engine 119 is serving residents of West Ashley from Bees Ferry Road.
Training & Technical Services Division: 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 Training and Technical Services. 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.

| Training Director | Battalion Chief | Robert Baldwin |

- **Structure fire scenario at Archer School.**
- **Recruits learning the skills needed for conducting roof ventilation operations.**
- **Live fire training being conducted with the propane prop at night.**
Recruit Class 1701 at graduation with staff of Training Section.

Recruit Class 1702 at graduation with Interim Fire Chief John Tippett and Training Section Staff.

Recruits participating in bail-out training as part of Safety & Survival Training.

Incumbent water survival training.

Incumbents training on automobile extrication techniques.

Driver candidates train on drafting.
Technical Services oversees logistics, facility management and fleet maintenance. This division is currently led by Battalion Chief Greg Chesher who reports to the Deputy Chief of Training and Technical Services. He has direct oversight of the Technical Services Division’s daily operations. Logistics and fleet maintenance are managed by a logistics coordinator and lead mechanic. Staff generally work Monday through Friday, but are subject to after-hours call back based on department needs. Logistics and fleet maintenance are divided into the following sections: fire apparatus maintenance/repair, general vehicle maintenance/repair, small engine maintenance/repair, facility maintenance/repair, and logistical needs such as facility supplies, uniforms, and personal protective equipment.
Technical Services: 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.

Veronica Varn checking supply levels in logistics data base.

Technical Services: Fleet Services

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.

Lead Mechanic and members of apparatus committee at Pierce factory for pre-construction meeting for the new Heavy Rescue 101 scheduled to be delivered mid to late 2018.

CFD Mechanic Joseph Williams conducting preventive maintenance on one of the CFD’s light duty vehicles.
Technical Services: 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.

Technical Services: PPE Maintenance Program

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.

2017 SCBA Maintenance Statistics

- Turnaround time for repairs 24-48 hours
- 262 SCBAs Flow Tested
- 229 SCBA repairs made
- 25 air cylinders repaired
- 20 face pieces repaired
- 41 SCBA’s upgraded
- 181 air cylinders hydro tested
- 1500 work hours logged by SCBA Technicians

2017 PPE Maintenance Statistics

- 985 sets of Turnout Gear inspected.
- 393 miscellaneous repairs made to Turnout Gear.
- 124 sets of Turnout Gear cleaned in addition to being inspected for use as crawl gear for training.
- 243 sets 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.
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
Deputy Fire Marshal Rick Fluegge conducting a sprinkler inspection.
## Community Outreach and Education Activities

### 2017 Code Enforcement and Fire Plan Review Summary

<table>
<thead>
<tr>
<th>2017 Community Outreach and Risk Reduction Events</th>
<th>Number of Events</th>
<th>Adults</th>
<th>Children</th>
<th>Smoke Alarms</th>
<th>Car Seats</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apparatus Tours</td>
<td>158</td>
<td>406</td>
<td>776</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Canvas (After the Fire)</td>
<td>9</td>
<td>57</td>
<td>32</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>Canvas (Pre Fire)</td>
<td>287</td>
<td>2905</td>
<td>1942</td>
<td>96</td>
<td>0</td>
</tr>
<tr>
<td>Car Seat Event (Checkpoint)</td>
<td>7</td>
<td>44</td>
<td>46</td>
<td>0</td>
<td>34</td>
</tr>
<tr>
<td>Car Seat Install</td>
<td>28</td>
<td>37</td>
<td>4</td>
<td>0</td>
<td>24</td>
</tr>
<tr>
<td>Career Day</td>
<td>2</td>
<td>45</td>
<td>550</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Community Outreach Event</td>
<td>101</td>
<td>4117</td>
<td>4092</td>
<td>7</td>
<td>20</td>
</tr>
<tr>
<td>Detector Install, Inspection, or Battery Change</td>
<td>134</td>
<td>256</td>
<td>34</td>
<td>290</td>
<td>0</td>
</tr>
<tr>
<td>Display or Booth</td>
<td>12</td>
<td>1996</td>
<td>1644</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Mentor Program</td>
<td>4</td>
<td>40</td>
<td>180</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Parade or festival</td>
<td>11</td>
<td>675</td>
<td>615</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Safety Education - Information Distribution</td>
<td>2</td>
<td>104</td>
<td>20</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Safety Presentation - Business</td>
<td>1</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Safety Presentation - General</td>
<td>8</td>
<td>259</td>
<td>677</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Safety Presentation - Neighborhood Association</td>
<td>5</td>
<td>160</td>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Safety Presentation - School</td>
<td>76</td>
<td>603</td>
<td>4924</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Safety Presentation - Seniors</td>
<td>2</td>
<td>71</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Station Tour</td>
<td>76</td>
<td>180</td>
<td>232</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>923</strong></td>
<td><strong>11962</strong></td>
<td><strong>15773</strong></td>
<td><strong>399</strong></td>
<td><strong>78</strong></td>
</tr>
</tbody>
</table>

### Members of the CFD conducting child car safety seat inspections in 2017

### Deputy Fire Marshal Josh Smith presenting at special events vendor meeting.

Fire Investigation Activities

<table>
<thead>
<tr>
<th>2017 Cause Report for all CFD cases</th>
<th>%</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Act of nature</td>
<td>1.35%</td>
<td>5</td>
</tr>
<tr>
<td>Cause under investigation</td>
<td>21.62%</td>
<td>80</td>
</tr>
<tr>
<td>Cause undetermined after investigation</td>
<td>14.05%</td>
<td>52</td>
</tr>
<tr>
<td>Cause, Other</td>
<td>1.89%</td>
<td>7</td>
</tr>
<tr>
<td>Failure of equipment or heat source</td>
<td>9.73%</td>
<td>36</td>
</tr>
<tr>
<td>Intentional</td>
<td>13.24%</td>
<td>49</td>
</tr>
<tr>
<td>Unintentional</td>
<td>38.11%</td>
<td>141</td>
</tr>
<tr>
<td>Grand Total</td>
<td>100.00%</td>
<td>370</td>
</tr>
</tbody>
</table>

2017 Cause Report for Cases Investigated by the FMD

| Act of nature                  | 1.55% | 2     |
| Cause under investigation       | 31.01% | 40   |
| Cause undetermined after investigation | 12.40% | 16   |
| Cause, Other                   | 0.78%  | 1     |
| Failure of equipment or heat source | 9.30%  | 12    |
| Intentional                    | 13.95% | 18    |
| Unintentional                  | 31.01% | 40    |
| Grand Total                    | 100.00% | 129  |

2017 Case Report State for Cases Investigated by the FMD

| Closed with exceptional clearance | 1.55% | 2     |
| Investigation closed              | 62.02% | 80   |
| Investigation closed with arrest  | 3.10%  | 4     |
| Investigation inactive            | 6.20%  | 8     |
| Investigation open                | 27.13% | 35    |
| Grand Total                       | 100.00% | 129  |

AFM Dan Failla, Intern Paige Hennighan, and AFM Keith Hutton at Smith Street Fire Scene.

AFM Keith Hutton taking photographic evidence for a fire investigation.

Intern Paige Hennighan working a Fire Investigation scene.

Chief Fire Marshal Julazadeh teaching recruits fire behavior principles used for conducting cause and origin investigations.
Fire Department Personnel Statistical Information

2017 Fire Department Employee Percentages by Age Group

2017 Fire Department Demographics by Race

2017 FIRE DEPARTMENT PERSONNEL BY POSITION

2017 Fire Department Personnel by Years of Service
Charleston Fire Department: 2017 Promotions

**Battalion Chiefs**
- Brian Brown
- John Cole
- James Jacques
- Kenneth Jenkins

**Captains**
- Michael Calabro
- David Chappell
- Joseph Curtis
- Matthew Fogliano
- Michael Gorby
- Albert Graziani
- Brent Gunn
- George Justice
- Jonathan Massie
- Brad Mizzell
- John Steinert
- Richard Summers
- Matthew Thomson
- Kyle Weiss

**Engineers**
- Leslie Baker
- William Finley
- Keith Gordon
- Brent Grisham
- Justin Kahle
- Evan Kraack
- Grey Mumpower
- Joshua Murphy
- Ryan O’Shea
- Kyle Riffe
- Nicholas Smith

**Assistant Engineers**
- Joseph Adams
- Joshawa Bell
- Donald Belt
- Steven Burzynski
- Adam Davis
- Thomas Fulmer
- Nicholas Harris
- John Montone
- Sean Nolan
- Matthew Tarkowski

**2017 Retirees**
- Deputy Chief Mark Davis - 22 years
- Asst. Chief Raymond Lloyd - 44 years
- Batt. Chief Troy Williams - 22 years
- Captain Ronald Droze - 30 years
- Captain Earl Dunlap - 24 years
- Captain William Johnson - 19 years
- Captain Sean Rivers - 16 years
- Captain William Taylor - 43 years
- Engineer Avery Hill - 12 years
- Engineer Adam Mims - 10 years
- Engineer Floyd Small - 10 years

Asst. Chief Raymond Lloyd retired after serving the citizens of the City of Charleston for 44 years.
Charleston Fire Department: 2017 Service Awards

Medal of Gallantry
- Steven Azzarella
- Michael Diaz
- Robert Fulmer
- Tyler Kurkiewicz
- Quent Myers

Fire Chief’s Award of Excellence
- Gregory Chesher

Chief Officer of the Year
- Robert Baldwin

Captain of the Year
- James Richardson

Engineer of the Year
- Michael Calabro

Firefighter of the Year
- Tristan Davidson

Community Outreach
- Jamaal Goss
- Jason Dunigan
- Ryan Criscio
- Kim Drayton
- Steven Mantie

Knights of Columbus Firefighter of the Year
- Robert Fulmer

West Ashley Optimist Club Firefighter of the Year
- Kevin Brophy

Commendations
- Bobby Wright

Fire Marshal Division
- Ryan Delk

Technical Services Division
- Daniel Arthur
- Tyson Sohrweide

Engine 116 C-shift
- Seth Miller
- Parker Shanks

Squad 101 C-shift
- Eric Foerster
- Daniel Kerns
- Travis O’Neill
- Paul Tumminia

Engine 111 B-shift
- Captain Ryan Delk received the City’s first quarter award for customer service.

CSI First Quarter Blue Dot Award

Captain Robert Fulmer receiving the Knights of Columbus Firefighter of the Year award for 2017. Pictured with his wife and daughter, along with his parents and Mayor John Tecklenburg.

Captain Kevin Brophy recipient of the West Ashley Optimist Club Firefighter of the Year for 2017.
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. BAIKY - 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 Station 8 on Huger Street Then and Now

Circa 1917

2017

Cover Design By:
Adam Hurst
Artist and Charleston Firefighter

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Charleston, SC 29405
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