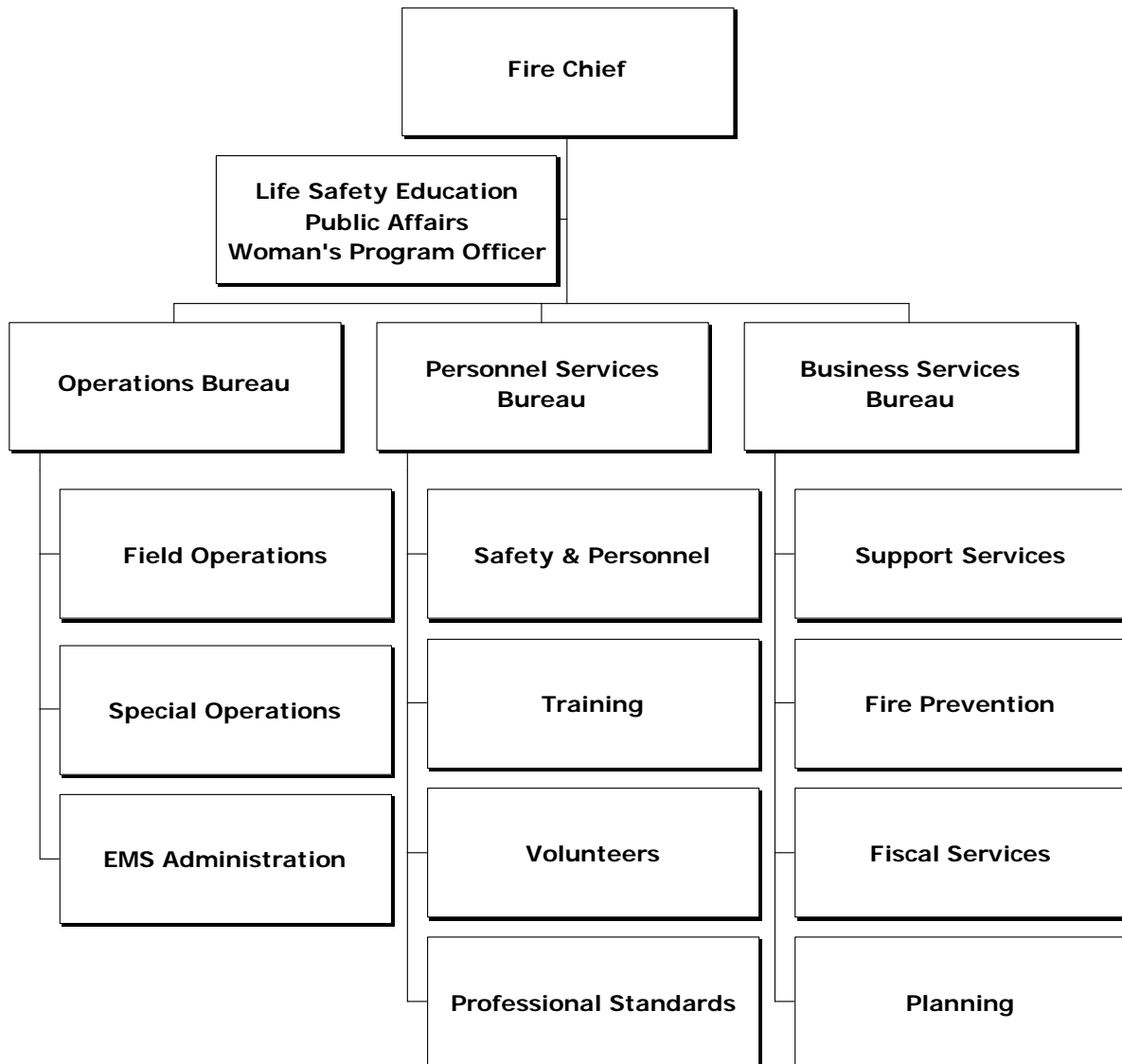


Fire and Rescue Department



Mission

To provide the highest quality services to protect the lives, property and environment of our community.

Fire and Rescue Department



AGENCY DASHBOARD			
Key Data	FY 2014	FY 2015	FY 2016
1. Total incident responses	91,308	95,364	97,204
2. Total patients transported	48,966	51,425	52,415
3. AED response rate within 5 minutes (National Standard 90 percent)	56.37%	54.57%	54.17%
4. First ALS provider on scene within 5 minutes	58.89%	58.26%	58.60%
5. ALS transport unit on scene within 9 minutes (National Standard 90 percent)	89.10%	89.95%	89.63%
6. Engine Company on a structure fire within 5 minutes, 20 seconds (National Standard 90 percent)	53.00%	51.90%	50.69%
7. 15 operational personnel on a structure fire within 9 minutes, 20 seconds (National Standard 90 percent)	87.20%	83.18%	81.40%
8. Fire inspections conducted	21,920	20,942	20,520
9. Fire systems testing conducted	15,097	15,954	11,936
10. Total fire loss for commercial & residential structures (in millions)	\$12.3	\$15.9	\$14.9
11. Preschool and kindergarten students educated	26,223	23,260	23,746
12. Senior citizens educated	9,479	7,810	9,028
13. Preschool and kindergarten fire deaths	0	0	0
14. Preschool and kindergarten burn injuries	0	0	0
15. Senior citizen fire deaths	2	0	2
16. Senior citizen burn injuries	3	1	4

Fire and Rescue Department

Focus

The Fire and Rescue Department (FRD) currently operates 38 fire stations. Fire stations are staffed full time by County personnel with supplemental services provided by volunteers. The department operates from an “all-hazards” platform and serves Fairfax County and its residents by suppressing fires; providing advanced life support; pre-hospital emergency medical care; rescue operations (i.e. searching for and rescuing persons who become trapped in fires, and extrication from vehicle accidents); and special operations, including the release or spill of hazardous materials, technical rescue (i.e. swift water rescue, building or trench collapse, high angle or rope rescue), marine operations (i.e. water rescue, boat fires, fuel spills) on the lower Potomac and Pohick Bay, and performing emergency planning. The Fire Marshal’s Office investigates fires, bombings and hazardous material releases. The department also supports regional, national, and international emergency response operations during disaster situations through maintaining and supporting the Urban Search and Rescue (US&R) Team (Virginia Task Force 1), the National Capital Region Incident Management Team, and other response groups. The US&R Team is one of only two teams in the United States federally sponsored for international disaster response.

Additionally, FRD provides critical non-emergency services to prevent the 911 call, such as educating the public on fire and personal safety issues, providing public information and prevention education, and enforcing fire prevention and life safety codes in all public buildings. In late FY 2013, FRD initiated a

countywide community outreach program titled “Safety in Our Community” (SIOC) which involves fire personnel canvassing neighborhoods to check for and install working smoke alarms and delivering fire and life safety information. In FY 2014, the SIOC program was extended to include “Wellness in Our Community” (WIOC) which involves fire personnel providing presentations at senior centers and assisted living facilities as well as delivering File of Life forms to County residents.

FRD also operates a number of facilities to ensure personnel are trained and prepared to perform the mission. The Fire and Rescue Academy provides firefighter, rescue, and emergency medical training and conducts citizen emergency response training. Two apparatus shops are staffed to ensure emergency response vehicles are safe and service-ready.

FRD actively engages at local, regional and national levels to meet the challenges of emergency response and prevention. Robust life safety education programs, concentrated enforcement of fire prevention codes and operational personnel dedicated to protecting lives are instrumental in the County maintaining a low fatality record. Regionally, FRD has built collaborative relationships with surrounding localities and organizations necessary for responding to emergency incidents regardless of jurisdictional boundaries and across public safety disciplines.

The Fire and Rescue Department supports the following County Vision Elements:



Maintaining Safe and Caring Communities



Creating a Culture of Engagement



Connecting People and Places



Practicing Environmental Stewardship



Maintaining Healthy Economies



Building Livable Spaces



Exercising Corporate Stewardship

Fire and Rescue Department

Despite high demands for emergency services (over 97,000 incidents in FY 2016) and tightened financial resources, FRD has maintained its ability to meet core responsibilities while striving to remain on the cutting edge of safety and technological advancements. To fund many initiatives the department continually seeks alternative funding sources. During FY 2016, FRD was awarded in excess of \$14.3 million in grant funds. Grant funding is used to support Urban Search and Rescue personnel, purchase personal protective equipment and emergency response vehicles, as well as to support firefighter training and education.

FRD is dedicated to being the best community-focused fire and rescue department and ensuring a safe and secure environment for all residents and visitors. To successfully meet challenges posed by increasing urbanization and a more densely populated response area, FRD will continue to be progressive in efforts to achieve economies of scale through regional cooperation, seek out innovative methods for keeping pace with technology, sustain programs to maintain a healthy workforce and adjust staffing configurations to meet the needs of future growth in Fairfax County.

Budget and Staff Resources

Category	FY 2016 Actual	FY 2017 Adopted	FY 2017 Revised	FY 2018 Advertised	FY 2018 Adopted
FUNDING					
Expenditures:					
Personnel Services	\$160,003,385	\$167,666,957	\$169,457,957	\$174,219,720	\$174,219,720
Operating Expenses	27,486,783	28,988,239	33,223,390	29,141,316	28,741,316
Capital Equipment	633,751	0	402,619	0	0
Total Expenditures	\$188,123,919	\$196,655,196	\$203,083,966	\$203,361,036	\$202,961,036
Income:					
Fire Prevention Code Permits	\$1,835,328	\$1,799,363	\$1,850,735	\$1,887,750	\$1,887,750
Fire Marshal Fees	4,806,501	4,755,386	4,806,501	4,902,631	4,902,631
Charges for Services	32,054	142,061	32,061	32,061	32,061
EMS Transport Fee	19,915,403	18,017,051	20,114,557	20,215,130	20,215,130
Miscellaneous	705,866	0	0	0	0
Total Income	\$27,295,152	\$24,713,861	\$26,803,854	\$27,037,572	\$27,037,572
NET COST TO THE COUNTY	\$160,828,767	\$171,941,335	\$176,280,112	\$176,323,464	\$175,923,464
AUTHORIZED POSITIONS/FULL-TIME EQUIVALENT (FTE)					
Regular	1592 / 1592	1592 / 1592	1592 / 1592	1592 / 1592	1592 / 1592

This department has 18/16.8 FTE Grant Positions in Fund 50000, Federal-State Grants.

FY 2018 Funding Adjustments

The following funding adjustments from the FY 2017 Adopted Budget Plan are necessary to support the FY 2018 program. Included are all adjustments recommended by the County Executive that were approved by the Board of Supervisors, as well as any additional Board of Supervisors' actions, as approved in the adoption of the budget on May 2, 2017.

- ◆ **Employee Compensation** **\$3,505,806**
An increase of \$3,505,806 in Personnel Services includes \$199,877 for performance-based and longevity increases for non-uniformed merit employees effective July 2017, as well as \$3,287,885 for FY 2018 merit and longevity increases (including the full-year impact for FY 2017 increases) for uniformed employees

Fire and Rescue Department

awarded on the employees' anniversary dates and \$18,044 for employee pay increases for specific job classes identified in the County's benchmark class survey of comparator jurisdictions.

- ◆ **Fair Labor Standards Act (FLSA) Ruling** **\$2,140,128**
 An increase of \$2,140,128 is required to cover costs associated with a Fourth Circuit Court of Appeals ruling which stated FRD uniformed employees at the rank of Captain I and Captain II do not fall within the executive or administrative exemptions for the FLSA overtime requirement because management is not their primary duty. It should be noted that an increase of \$163,720 in Fringe Benefits funding is included in Agency 89, Employee Benefits, for a total cost of \$2,303,848 in FY 2018. For further information on Fringe Benefits, please refer to the Agency 89, Employee Benefits, narrative in the Nondepartmental program area section of Volume 1.
- ◆ **SAFER Positions** **\$1,279,833**
 An increase of \$1,279,833 is required to cover the partial year costs associated with 18/18.0 FTE positions currently being funded by a Staffing for Adequate Fire and Emergency Response (SAFER) grant which will expire in FY 2018. These positions have allowed the department to complete the initiative of having a fourth person on all 14 ladder truck companies. Four person truck staffing has enhanced FRD's ability to establish on-scene firefighting, rescue and medical emergency services in a more timely and efficient manner, with the right amount of personnel, thus reducing property loss and firefighter injury risks or death. It should be noted that an increase of \$776,219 in Fringe Benefits funding is included in Agency 89, Employee Benefits, for a total cost of \$2,056,052 in FY 2018. For further information on Fringe Benefits, please refer to the Agency 89, Employee Benefits, narrative in the Nondepartmental program area section of Volume 1.
- ◆ **Department of Vehicle Services Charges** **(\$150,000)**
 A decrease of \$150,000 is included for Department of Vehicle Services charges based on anticipated billings for fuel, vehicle replacement, and maintenance-related charges.
- ◆ **Reductions** **(\$469,927)**
 A decrease of \$469,927 reflects reductions utilized to balance the FY 2018 budget. The following table provides details on the specific reductions:

Title	Impact	Posn	FTE	Reduction
Restructure EMS Recertification Program to Occur on-duty	A decrease of \$225,000 will result from the Department restructuring the Emergency Medical Technician (EMT) recertification training process. Currently, personnel attend a four day training, provided by an outside vendor, to obtain the necessary credit hours. In the future, all required trainings will be offered in-house and staff will not be required to attend the four day training which will result in reduced overtime costs for the Department.	0	0.0	\$225,000

Fire and Rescue Department

Title	Impact	Posn	FTE	Reduction
Eliminate National Counterterrorism Center (NCTC) Detail	A decrease of \$159,927 will result from no longer dedicating a position to the Interagency Threat Assessment and Coordination Group (ITACG) at the National Counterterrorism Center (NCTC). Since FY 2011, the Department has dedicated a staff member to this effort promoting interagency coordination as it relates to terrorism, strategic threat assessments and information dissemination; however, any impact is anticipated to be manageable as coordination for these functions occurs through multiple channels. Savings will be generated by reassigning the position to the field which will result in reduced overtime costs as the position will no longer require backfill while away on special assignment.	0	0.0	\$159,927
Reduce VCU program from six to five personnel	A decrease of \$85,000 will result from reducing the number of individuals participating in the Virginia Commonwealth University (VCU) paramedic training from six to five annually. The training is a joint effort between FRD and VCU hosted at the Fire Training Academy utilizing instructors from within the department with VCU providing the administrative support, curriculum development resources, and clinical resources to provide an ALS certification program. This could potentially impact FRD's ability to maintain the appropriate number of staff with Advanced Life Support (ALS) training; however, the Department will work to mitigate this potential impact.	0	0.0	\$85,000

Fire and Rescue Department

Changes to FY 2017 Adopted Budget Plan

The following funding adjustments reflect all approved changes in the FY 2017 Revised Budget Plan since passage of the FY 2017 Adopted Budget Plan. Included are all adjustments made as part of the FY 2016 Carryover Review, FY 2017 Third Quarter Review, and all other approved changes through April 30, 2017.

- ◆ **Carryover Adjustments** **\$4,528,770**
As part of the *FY 2016 Carryover Review*, the Board of Supervisors approved encumbered funding of \$4,528,770 in Operating Expenses due primarily to contractual requirements, equipment upgrades and uniforms.

- ◆ **Fair Labor Standards Act Ruling** **\$1,600,000**
As part of the *FY 2017 Third Quarter Review*, an increase of \$1,600,000 is required to cover costs associated with a Fourth Circuit Court of Appeals ruling which stated FRD uniformed employees at the rank of Captain I and Captain II do not fall within the executive or administrative exemptions for the FLSA overtime requirement because management is not their primary duty. It should be noted that an increase of \$122,000 in Fringe Benefits funding is included in Agency 89, Employee Benefits, for a total cost of \$1,722,000 in FY 2017. For further information on Fringe Benefits, please refer to the Agency 89, Employee Benefits, narrative in the Nondepartmental program area section of Volume 1.

- ◆ **Fire and Rescue Department Training** **\$300,000**
As part of the *FY 2017 Third Quarter Review*, funding of \$300,000 is required to fund training and development requirements resulting from the Cultural Organizational Assessment Report which was released on February 15, 2017. The Fire Chief has been tasked with reviewing this assessment in detail, and working with department and County staff to develop and present an action plan to the Executive Review Committee. It is encouraged and expected that he will form work groups to address different issues, and to include appropriate stakeholders, including employee groups, diverse department members, and partners such as the Department of Human Resources (DHR) and the Office of Human Rights and Equity Programs (OHREP). Training and development opportunities in this context are expected to include areas such as harassment/bullying, avoiding discrimination, promoting the health, safety, and wellbeing of all employees, and numerous other related topics.

Fire and Rescue Department

Cost Centers

The four cost centers of the Fire and Rescue Department are Bureau of the Fire Chief, Operations Bureau, Business Services Bureau, and Personnel Services Bureau. The cost centers work together to fulfill the mission of the department and carry out key initiatives for the fiscal year.

Bureau of the Fire Chief

The Bureau of the Fire Chief manages and coordinates all aspects of the Fire and Rescue Department which includes directing overall policy, planning and management of the department. This bureau also includes the department's Public Information Section, Life Safety Education Section and the Security Intelligence Liaison.

Category	FY 2016 Actual	FY 2017 Adopted	FY 2017 Revised	FY 2018 Advertised	FY 2018 Adopted
EXPENDITURES					
Total Expenditures	\$1,406,024	\$1,208,749	\$1,457,385	\$1,437,681	\$1,437,681
AUTHORIZED POSITIONS/FULL-TIME EQUIVALENT (FTE)					
Regular	11 / 11	11 / 11	10 / 10	10 / 10	10 / 10
1 Fire Chief	2	Life Safety Education Specialists	1	Administrative Associate	
1 Deputy Fire Chief	1	Public Safety Information Officer IV	1	Administrative Assistant V	
1 Battalion Chief	1	Public Safety Information Officer III	1	Administrative Assistant IV	
TOTAL POSITIONS					
10 Positions / 10.0 FTE					
3 Uniformed / 7 Civilian					

Operations Bureau

The Operations Bureau is composed of the Field Operations Division, Emergency Medical Services Administration Division and the Special Operations Division. The goal of the Operations Bureau is to save lives and protect property by providing emergency and non-emergency response to residents and visitors of Fairfax County. The Operations Bureau operates on three separate 24-hour rotation shifts. Each shift is led by a Deputy Fire Chief. The County is separated geographically into seven battalions, each managed by a battalion management team of a Battalion Fire Chief and EMS Captain. Fire suppression personnel and paramedics work in tandem to ensure the highest level of safety and care for residents and visitors of Fairfax County.

Category	FY 2016 Actual	FY 2017 Adopted	FY 2017 Revised	FY 2018 Advertised	FY 2018 Adopted
EXPENDITURES					
Total Expenditures	\$148,911,584	\$158,114,586	\$159,043,531	\$162,427,366	\$162,027,366
AUTHORIZED POSITIONS/FULL-TIME EQUIVALENT (FTE)					
Regular	1297 / 1297	1297 / 1297	1306 / 1306	1298 / 1298	1306 / 1306

Fire and Rescue Department

1	Assistant Fire Chief	175	Lieutenants, 3 AP	2	Administrative Assistants IV
5	Deputy Fire Chiefs	562	Fire Technicians, 3 AP	2	Administrative Assistants III
25	Battalion Chiefs	381	Firefighters, 3 AP	1	Administrative Assistant II
62	Captains II, 2 AP	2	Management Analysts III	1	Material Management Assistant
83	Captains I	3	Management Analysts I	1	Emergency Management Specialist III

TOTAL POSITIONS

1,306 Positions / 1,306.0 FTE

1,294 Uniformed / 12 Civilians

AP Denotes Alternative Placement Program

Business Services Bureau

The Business Services Bureau consists of the Fire Prevention Division, Fiscal Services Division, Planning Section and the Support Services Division. Business Services functions are critical to ensuring the Operations Bureau has the resources needed to respond to emergency incidents.

Category	FY 2016 Actual	FY 2017 Adopted	FY 2017 Revised	FY 2018 Advertised	FY 2018 Adopted
EXPENDITURES					
Total Expenditures	\$22,490,245	\$22,088,817	\$25,158,834	\$23,623,412	\$23,623,412
AUTHORIZED POSITIONS/FULL-TIME EQUIVALENT (FTE)					
Regular	210 / 210	210 / 210	202 / 202	210 / 210	202 / 202

1	Assistant Fire Chief	2	Business Analysts II	1	Management Analyst IV
2	Deputy Fire Chiefs	1	Network/Telecom. Analyst III	2	Management Analysts III
5	Battalion Chiefs	1	Network/Telecom. Analyst II	3	Management Analysts II
4	Captains II	3	Network/Telecom. Analysts I	3	Management Analysts I
15	Captains I	2	Financial Specialists IV	1	Fire Inspector IV
13	Lieutenants	5	Financial Specialists III	5	Fire Inspectors III
1	Fire Apparatus Supervisor	2	Financial Specialists II	37	Fire Inspectors II
1	Asst. Fire Apparatus Supervisor	2	Financial Specialists I	1	Instrumentation Technician III
7	Fire Technicians	1	Geographic Information Spatial Analyst III	1	Vehicle Maintenance Coordinator
9	Fire Apparatus Mechanics	2	Geographic Information Spatial Analysts II	2	Instrumentation Technicians II
16	Firefighters	3	Code Specialists II	2	Material Management Specialists III
1	IT Program Manager I	1	Emergency Management Specialist III	2	Material Management Specialists II
1	Engineer IV	3	Engineering Technicians I	2	Material Management Specialists I
13	Engineers III	1	Administrative Assistant V	1	Material Management Driver
2	Programmer Analysts III	5	Administrative Assistants IV	1	Truck Driver
1	Programmer Analyst II	6	Administrative Assistants III	1	Inventory Manager
1	Business Analyst III	3	Administrative Assistants II	1	Contract Analyst II

TOTAL POSITIONS

202 Positions / 202.0 FTE

63 Uniformed / 139 Civilians

Fire and Rescue Department

Personnel Services Bureau

The Personnel Services Bureau includes the Safety and Personnel Services Division, Training Division and Volunteer Liaison's Office. This bureau strives to provide a representative work force through equal employment opportunity, active recruitment of qualified applicants and volunteers, basic training, professional certifications and continuing education. They are responsible for occupational safety, health and wellness, payroll and human resources functions.

Category	FY 2016 Actual	FY 2017 Adopted	FY 2017 Revised	FY 2018 Advertised	FY 2018 Adopted
EXPENDITURES					
Total Expenditures	\$15,316,066	\$15,243,044	\$17,424,216	\$15,872,577	\$15,872,577
AUTHORIZED POSITIONS/FULL-TIME EQUIVALENT (FTE)					
Regular	74 / 74	74 / 74	74 / 74	74 / 74	74 / 74

1	Assistant Fire Chief	1	Human Resources Generalist IV	1	Management Analyst III
2	Deputy Fire Chiefs	2	Human Resources Generalists III	2	Management Analysts II
4	Battalion Chiefs	2	Human Resources Generalists II	1	Management Analyst I
7	Captains II	3	Human Resources Generalists I	1	Business Analyst I
9	Captains I	1	Internal Affairs Investigator	1	Administrative Assistant V
15	Lieutenants	3	Nurse Practitioners/Physician Assts.	6	Administrative Assistants IV
1	Fire Technician	1	Public Health Nurse III	2	Administrative Assistants III
6	Firefighters	1	Facility Attendant II	1	Administrative Assistant II

TOTAL POSITIONS
 74 Positions / 74.0 FTE
 45 Uniformed / 29 Civilian

Key Performance Measures

Indicator	Prior Year Actuals			Current Estimate	Future Estimate
	FY 2014 Actual	FY 2015 Actual	FY 2016 Estimate/Actual	FY 2017	FY 2018
Operations Bureau					
Percent ALS transport units on scene within 9 minutes	89.10%	89.95%	90.00%/89.63%	90.00%	90.00%
AED response rate within 5 minutes	56.37%	54.57%	60.00%/54.17%	60.00%	60.00%
Total incidents responded to	91,308	95,364	95,000/97,204	97,000	97,000
Fire suppression response rate for the arrival of an engine company on a structure fire within 5 minutes and 20 seconds	53.00%	51.90%	54.00%/50.69%	52.00%	52.00%
Fire suppression response rate for 15 personnel within 9 minutes and 20 seconds	87.20%	83.18%	88.00%/81.40%	85.00%	85.00%
Percent of cardiac arrest patients arriving at the Emergency Department with a pulse	55.9%	58.5%	30.0%/40.2%	40.0%	40.0%
Number of smoke alarms distributed and installed	NA	5,711	6,000/3,908	6,000	6,000
Number of FOLs used as resource in patient encounters	NA	1,543	1,000/1,354	1,000	1,000
Fire loss (millions)	\$12.3	\$15.9	\$16.0/\$14.9	\$16.0	\$16.0

Fire and Rescue Department

Indicator	Prior Year Actuals			Current Estimate	Future Estimate
	FY 2014 Actual	FY 2015 Actual	FY 2016 Estimate/Actual	FY 2017	FY 2018
Operations Bureau					
Fire loss as percent of total property valuation	0.01%	0.01%	0.01%/0.01%	0.01%	0.01%
Total civilian fire deaths	6	2	5/3	5	5
Civilian fire deaths per 100,000 population	0.50	0.17	0.50/2.70	0.50	0.50
Civilian fire-related burn injuries	25	18	25/22	25	25
Civilian fire-related burn injuries per 100,000 population	2.5	1.6	2.5/2.2	2.5	2.5
Business Services Bureau					
Preschool and kindergarten students served	26,223	23,260	25,000/23,746	25,000	25,000
Senior citizens served	9,479	7,810	9,000/9,028	8,000	8,000
Children (5 years and under) deaths due to fire	0	0	0/0	0	0
Children (5 years and under) burn injuries	0	0	1/0	1	1
Senior citizen (over age 60) deaths due to fire	2	0	0/2	0	0
Senior citizen (over age 60) burn injuries	3	1	2/4	2	2
Fire investigations conducted (including arson cases)	283	386	405/350	375	400
Hazardous materials cases investigated	269	258	400/259	225	250
Fire inspection activities conducted	21,920	20,942	21,000/20,520	21,500	21,500
Systems testing activities conducted	15,097	15,954	16,500/11,936	11,000	11,000
Revenue generated for all inspection activities	\$4,344,776	\$4,996,109	\$5,591,359/\$5,252,496	\$5,365,000	\$5,365,000
Percent of fire prevention services cost recovered	85.8%	100.0%	100.0%/93.0%	90.7%	90.0%
Percent total fire investigation cases closed (fires, bombings, threats and arson)	77.3%	89.4%	85.0%/87.1%	85.0%	85.0%
Percent arson cases closed	40.0%	64.8%	50.0%/85.0%	60.0%	60.0%
Percent hazardous materials cases closed	94.0%	91.8%	85.0%/85.0%	85.0%	95.0%
Total fire loss for commercial structures	\$1,050,700	\$3,922,538	\$2,000,000/\$1,813,000	\$2,000,000	\$2,000,000
Transport billing (in millions)	\$16.6	\$17.6	\$17.9/\$19.9	\$19.0	\$19.0
Personnel Services Bureau					
Hours of direct service	97,829	87,768	90,000/94,257	95,000	95,000
Times volunteer-staffed emergency vehicles are placed in service annually	1,739	1,520	1,650/1,525	1,678	1,716
Trained career firefighters added to workforce	84	81	80/78	90	90

A complete list of performance measures can be viewed at www.fairfaxcounty.gov/dmb/fy2018/adopted/pm/92.pdf

Fire and Rescue Department

Performance Measurement Results

Fairfax County Fire and Rescue Department has identified a four-pronged approach to a total community fire and life safety program:

- Prevent the 911 call through community outreach, education and prevention programs including building inspections and code enforcement;
- Respond to structure fires to save lives and property;
- Respond to medical emergencies to save lives; and
- Respond to all hazards incidents to save lives, property and the environment.

In Virginia, fires are the fourth leading cause of unintentional injury or death. The overarching priority of the Fairfax County Fire and Rescue Department is to "Prevent the 911 Call" to reduce the risk that any Fairfax County resident, business employee, or visitor will suffer a fire injury or death, and reduce the chances of fire-related property loss or damage. To achieve the goal of preventing the 911 call, FRD is committed to community outreach, and providing essential fire prevention and life safety education programs.

FRD initiated an aggressive countywide community outreach program in June 2013 titled "Safety in Our Community" (SIOC). Each Saturday throughout the spring, summer, and fall, fire personnel canvass neighborhoods door to door checking for working smoke alarms, installing new alarms if needed, checking placement of outdoor cooking appliances, offering home safety inspections, and delivering fire and life safety information. In April 2014, the FRD initiated "Wellness in Our Community" (WIOC) an extension of its successful countywide community outreach program. This program involves firefighters and paramedics giving presentations at senior centers and assisted living facilities as well as delivering File of Life forms to County residents.

In FY 2018, the department's Public Affairs/Life Safety Education program anticipates serving 25,000 preschooler and kindergarten students, 15,000 school-age children, and 8,000 older adults in an effort to eradicate fire deaths and burn injuries within these high risk populations. In FY 2016, the number of school age child care students (SACC) reached more than doubled the estimate as a result of new programs offered to children in the summer and at after school day-care programs as well as leveraging partnerships in the region to provide more community outreach and education events throughout the year.

In FY 2016, Operations responded to 97,204 incidents. FRD reports cardiac arrest outcomes using the Utstein template, the international standard for cardiac arrest reporting, as it more accurately reflects the population of patients for whom prehospital interventions are likely to have the most impact, i.e. those presenting in a shockable rhythm. The strongest predictor of survival is the return of spontaneous circulation (ROSC), a pulse prior to arrival at a hospital. FRD's FY 2016 performance outcome was 40.2 percent for those patients presenting in a shockable rhythm. As reported by the Cardiac Arrest Registry to Enhance Survival (CARES) surveillance data, 26 percent of those who had prehospital ROSC survived their out of hospital cardiac arrest.

The National Fire Protection Association (NFPA), a standard-setting organization for fire departments, adopts standards regarding response time objectives and staffing levels. The Service Quality indicators reported by FRD track the percent of time the department meets NFPA standards. NFPA response time standards for structure fires require the first engine company to arrive on the scene of a structure fire within

Fire and Rescue Department

five minutes and 20 seconds, and 15 firefighters to arrive on scene within nine minutes and 20 seconds, 90 percent of the time. In FY 2016, the department met these standards, 50.7 percent and 81.4 percent of the time respectively. NFPA response time standards for medical emergencies require an advanced life support (ALS) transport unit on scene within nine minutes and an AED on scene within five minutes, 90 percent of the time. In FY 2016, these response goals were met 89.6 percent and 54.2 percent of the time respectively. As a result of increased staffing the department's goal is to improve response times to both fire and medical incidents.

Fire Prevention Services activities are designed to minimize property loss in commercial (non-residential) fires through effective and comprehensive inspections that enforce all applicable codes. The FY 2016 commercial fire loss was \$1,813,000 which was lower than the objective goal of less than \$2.0 million. It should be noted that one fire accounted for \$1.7 million of that total fire loss. The FY 2017 and FY 2018 estimates for commercial fire losses remain at \$2.0 million.

The total number of inspections were down in FY 2016 due to several contributing factors such as vacancies and inspection complexity. The Fire Prevention Services Section carried approximately five front line inspector vacancies throughout the entirety of FY 2016. Additionally, customer demand for fire protection systems acceptance testing has shifted from predominantly tenant build-out and retrofit work that requires one inspector for an hour or less per system test, to a team of two inspectors for multiple full workdays. This means a commensurate number of hours/revenue dollars are billed but fewer actual inspections are accomplished. Shell building new construction is more complex to test and witness floors of multiple fire alarm and sprinkler devices versus inspections of tenant build-outs or retrofits that move only a limited number of devices. It is anticipated this trend will continue through FY 2018 and workload estimates have been revised to reflect this shift into new construction, especially in the Tysons and Reston submarkets.

Maintaining a well-trained fully staffed workforce is key to the department's ability to function. The Training Division graduated 78 career firefighters from two recruit schools during FY 2016. The total number of recruits enrolled in recruit schools continues to increase to meet the higher operational staffing requirements to add the 4th person on trucks as a result of being awarded three Staffing for Adequate Fire and Emergency Response (SAFER) grants.

As a result of the Volunteer SAFER Recruitment and Retention grant awarded in 2011, volunteer departments have continued to experience growth in total membership and total direct operational service hours. However, the average number of operational hours per volunteer and the number of times volunteer units were put in service in FY 2016 were lower than estimated. Both decreases are due to the increased number of training hours required for new training requirements such as ambulance aid or driver qualifications which limit the volunteers' ability to place units in service.