#### **Business Service Bureau and Fire Chief'**

#### Goal

To provide management, administrative and public information and educational services to department personnel and to the general public to ensure the efficient daily operations of the Fire and Rescue Department.

#### **Objective**

To present life safety education programs to members of risk populations, including 25,000 or more preschool and kindergarten students, 8,000 students enrolled in the Fairfax County School-Age Child Care program, and 8,000 or more senior citizens, in order to approach a fire death rate of zero and a burn injury total of 3 or less.

#### **Performance Indicators**

	Prior Year Actuals			Current Estimate	Future Estimate
Indicator	FY 2014 Actual	FY 2015 Actual	FY 2016 Estimate/Actual	FY 2017	FY 2018
Output					
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
School age child care students (SACC) served	NA	9,166	8,000 / 19,832	15,000	15,000
Efficiency					
Cost per high risk citizen served	\$5.58	\$7.60	\$7.54 / \$6.47	\$7.14	\$7.25
Service Quality					
Percent of respondents satisfied with life safety program	100%	100%	100% / 100%	100%	100%
Outcome					
Children (5 years and under) deaths due to fire	0	0	0/0	0	o
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	O
Senior citizen (over age 60) burn injuries	3	1	2/4	2	2

In FY 2015, the cost per high risk citizen served increased because additional items (i.e. fire and life safety pamphlets and fire hats) were purchased for field personnel to distribute in their community outreach activities. This trend will continue in FY 2016 and FY 2017.

### **Fire Prevention**

#### Objective

To conduct investigations so that at least 95 percent of the fire cases and hazardous materials cases are peer reviewed by Case Managers, with a closure rate of 85 percent of fire investigation cases, 85 percent of hazardous materials cases and 60 percent of arson cases within a year.

	I	Prior Year Actual	Current Estimate	Future Estimate	
Indicator	FY 2014 Actual	FY 2015 Actual	FY 2016 Estimate/Actual	FY 2017	FY 2018
Output					
Fire investigations conducted (including arson cases)	283	386	405 / 350	375	400
Arson investigations conducted	70	37	42 / 60	50	50
Hazardous materials cases investigated	269	258	400 / 259	225	250
Efficiency					
Average fire and hazardous materials cases per investigator	46.0	56.0	67.0 / 75.0	75.0	75.0
Service Quality					
Percent of cases that peer reviewed by a Case Manager	97.1%	95.0%	95.0% / 95.0%	95.0%	95.0%
Outcome					
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%

#### Objective

To maintain the fire loss rate for commercial structures at no greater than \$2.0 million by conducting effective and comprehensive inspections that enforce all applicable codes, with a service delivery target of recovering at least 90.0 percent of all fire prevention services costs per year.

#### **Performance Indicators**

	Prior Year Actuals			Current Estimate	Future Estimate
Indicator	FY 2014 Actual	FY 2015 Actual	FY 2016 Estimate/Actual	FY 2017	FY 2018
Output					
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
Efficiency					
Net cost per inspection (revenues in excess of average cost)	\$19.51	(\$0.40)	(\$0.54) / \$11.93	\$16.92	\$25.76
Average revenue generated per inspection/systems testing activity	\$117.37	\$135.41	\$149.10 / \$161.83	\$165.08	\$165.08
Service Quality					
Percent of fire prevention services cost recovered	85.8%	100.0%	100.0% / 93.0%	90.7%	90.0%
Outcome					
Total fire loss for commercial structures	\$1,050,700	\$3,922,538	\$2,000,000 / \$1,813,000	\$2,000,000	\$2,000,000

Fire Marshal Fees were raised mid-FY 2015 by approximately 20%. FY2017 and FY2018 revenue projections for the inspections service area (not including engineering plans review) have been revised to reflect current staffing models, position vacancy rates and workload indicators.

FY2016 total number of inspections were down due to several contributing factors: vacancies, shell construction of new buildings vs. tenant work, and loss of AP positions that were front line inspections staff. Shell construction of new buildings will bill a commensurate number of hours, however, fewer inspections are performed because they are more complicated, require two inspectors and take more time to perform. Tenant work requires one inspector for shorter periods of time (usually one hour or less). The workload has been adjusted in FY2017 and FY2018 to reflect the switch in construction demand from tenant work to shell construction of new buildings. It is anticipated that revenue levels will remain approximately the same.

Staff anticipates an increase of hazardous materials releases reported due to reporting requirements under the County's new Municipal Separate Storm Sewer System (MS4) permit language. Training will heighten County staff's awareness to releases of hazmat that have gone unreported in the past. All releases, even parking lot stains, will be required to be reported. Staff anticipates a continued increase in workload to handle small release notifications during FY2017 and FY2018. The new permit was issued 4-1-15 by Virginia DEQ.

The Investigations service area switched to a new record management system called HEATS that was developed by County IT to capture data regarding fire and hazmat investigations. The database is still under development, and the hazmat module has not been fully developed. FY2016 actuals reflect only 9 months worth of data that is contained in the database that went live in late September 2015. It is anticipated that County DIT will finish programming the remaining modules of the HEATS system (hazmat, accelerant canine and training) some time in calendar year 2017.

### **Operations Division**

#### Objective

For Emergency Medical Services (EMS) to provide on-scene Advanced Life Support (ALS) capability within 9 minutes and a first responder with an Automatic External Defibrillator (AED) within 5 minutes, so that at least 40 percent of patients with witnessed non-traumatic cardiac arrest and present with a shockable rhythm arrive at a hospital with a pulse.

	Р	rior Year Actual	Current Estimate	Future Estimate	
Indicator	FY 2014 Actual	FY 2015 Actual	FY 2016 Estimate/Actual	FY 2017	FY 2018
Output					
Patients transported	48,966	51,425	50,000 / 52,415	53,000	53,500
Service Quality					
ALS transport units on scene within 9 minutes (National Standard 90%)	89.10%	89.95%	90.00% / 89.63%	90.00%	90.00%
AED response rate within 5 minutes (National Standard 90%)	56.37%	54.57%	60.00% / 54.17%	60.00%	60.00%
Outcome					
Cardiac arrest patients arriving at the Emergency Department with a pulse (National Average 21%)	55.9%	58.5%	30.0% / 40.2%	40.0%	40.0%

### Objective

To deploy suppression resources to a structure fire so that the first engine company arrives within 5 minutes, 20 seconds of dispatch and for 15 personnel to arrive within 9 minutes, 20 seconds in order to prevent civilian deaths and burn injuries, while striving to limit fire loss to \$16 million or less than 0.01 percent of the property value.

	Prior Year Actuals			Current Estimate	Future Estimate
Indicator	FY 2014 Actual	FY 2015 Actual	FY 2016 Estimate/Actual	FY 2017	FY 2018
Output					
Total incidents responded to	91,308	95,364	95,000 / 97,204	97,000	97,000
Efficiency					
Cost per suppression and EMS incident	\$2,275	\$2,296	\$2,417 / \$2,345	\$2,511	\$2,566
Service Quality					
Fire suppression response rate for arrival of an engine company within 5 minutes, 20 seconds (National Standard 90%)	53.00%	51.90%	54.00% / 50.69%	52.00%	52.00%
Fire suppression response rate for 15 personnel within 9 minutes, 20 seconds (National Standard 90%)	87.20%	83.18%	88.00% / 81.40%	85.00%	85.00%
Outcome					
Fire loss (millions)	\$12.3	\$15.9	\$16.0 / \$14.9	\$16.0	\$16.0
Civilian fire deaths per 100,000 population	0.50	0.17	0.50 / 2.70	0.50	0.50
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-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

#### Objective

A community outreach program titled "Safety in Our Community" (SIOC) and "Wellness in Our Community" (WIOC) where fire station personnel canvas neighborhoods to ensure that single family homes and residences in Fairfax County have at least one working smoke alarm while providing fire and life safety information including File of Life Forms.

#### **Performance Indicators**

	Prior Year Actuals			Current Estimate	Future Estimate
Indicator	FY 2014 Actual	FY 2015 Actual	FY 2016 Estimate/Actual	FY 2017	FY 2018
Output					
Time spent on SIOC/WIOC activities	NA	45,256	50,000 / 35,125	50,000	50,000
Efficiency					
Cost of SIOC materials per single family home reached	NA	\$3.25	\$2.60 / \$1.26	\$0.93	\$0.97
Service Quality					
Fire & Life Safety Information door hangers distributed to homes	NA	34,076	37,500 / 30,418	35,000	35,000
File of Life (FOLs) distributed.	NA	3,655	4,500 / 2,534	4,500	4,500
Outcome					
Number of smoke alarms distributed and installed.	NA	5,711	6,000 / 3,908	6,000	6,000
No. of FOLs used as resource in patient encounters.	NA	1,543	1,000 / 1,354	1,000	1,000

In FY 2016, the number of residential single family homes reached is lower than estimated since SIOC/WIOC activities were suspended during the WPFG. This also resulted in lower than estimated distribution of Fire & Life Safety door hangers, FOLs as well as number of smoke alarms installed. The cost of SIOC/WIOC materials per single family home reached decreased due to a large number of smoke alarms purchased through grant funding and other materials (door hangers and FOLs) that were left over from the previous year.

## **Volunteer Liaison**

### Objective

To obtain an amount of 95,000 direct volunteer service hours, achieving sufficient volunteer staffing so that volunteer-staffed emergency vehicles can be placed in service at least 1,500 times annually.

		Prior Year Actua	Current Estimate	Future Estimate	
Indicator	FY 2014 Actual	FY 2015 Actual	FY 2016 Estimate/Actual	FY 2017	FY 2018
Output					
Volunteer operational hours	97,829	87,768	90,000 / 94,257	95,000	95,000
Volunteer emergency vehicles available for staffing	23	23	23 / 24	24	24
Efficiency					
Average operational service hours per volunteer	272.0	275.0	280.0 / 255.0	271.0	271.0
Average number of volunteer- staffed emergency vehicles in service per day	4.8	4.2	4.8 / 4.2	4.6	4.7
Service Quality					
Percent of volunteer candidates who complete firefighter training	85%	88%	85% / 85%	85%	85%
Percent of new volunteers who are active in VFD at end of one year	65%	84%	70% / 78%	80%	80%
Outcome					
Times volunteer-staffed emergency vehicles are placed in service annually	1,739	1,520	1,650 / 1,525	1,678	1,716
Percent change in volunteer operational service hours	1%	(10%)	3% / 7%	2%	1

### **Training Division**

#### Objective

To train career FF/EMT and FF/Medic recruits, in compliance with local, state and federal standards, with an 91 percent graduation rate, adding qualified personnel as required to meet current and future operational staffing requirements.

#### **Performance Indicators**

	I	Prior Year Actua	Current Estimate	Future Estimate	
Indicator	FY 2014 Actual	FY 2015 Actual	FY 2016 Estimate/Actual	FY 2017	FY 2018
Output					
Recruit schools started	2	2	2/2	2	2
Career recruits enrolled	71	93	80 / 78	95	90
Efficiency					
Operating cost per career recruit	\$68,133	\$62,444	\$72,857 / \$73,491	\$71,837	\$79,257
Service Quality					
Percent of recruit firefighters graduating	83%	87%	91% / 89%	91%	91%
Outcome					
Trained career firefighters added to workforce	84	81	80 / 78	90	90

The Training Division continues consecutive schools which overlap the fiscal years, with each school being 24 - 26 weeks in length.

### **Fiscal Services Division**

### Objective

To maximize revenues from the Emergency Medical Services (EMS) transport billing program under a compassionate billing philosophy by collecting an anticipated \$19.0 million.

		Prior Year Actua	Current Estimate	Future Estimate	
Indicator	FY 2014 Actual	FY 2015 Actual	FY 2016 Estimate/Actual	FY 2017	FY 2018
Output					
Bills processed	49,003	49,003 / 50,692	50,692 / 52,962	52,962	52,962
Efficiency					
Program costs as a percentage of revenue	5.5%	5.5% / 5.5%	5.5% / 7.0%	7.0%	7.0%
Service Quality					
Percent of complaints resolved to the complainant's satisfaction	100%	100%	100% / 100%	100%	100%
Outcome					
Annual transport revenue billing (in millions)	\$16.6	\$17.6 / \$17.6	\$17.9 / \$19.9	\$19.0	\$19.0