



COUNTY of FREDERICK, VIRGINIA

DEPARTMENT OF PUBLIC SAFETY COMMUNICATIONS

1080 Coverstone Dr. Winchester, VA 22602

540-665-6356

LeeAnna Pyles
Director

FREDERICK COUNTY
PUBLIC SAFETY COMMITTEE
AGENDA

November 15, 2018

8:30 A.M.

Fire & Rescue conference room – 2nd floor

Public Safety Building

1080 Coverstone Dr., Winchester, Virginia

Call to Order: Thursday November 15 at 8:30 a.m.

Agenda Items:

- 1. Brief Departmental Budget presentations –**
 - Chief Linaburg (see attached)**
 - Sheriff Millholland**
 - Director Pyles (see attached)**
- 2. Next Generation 9-1-1 presentation – Director Pyles (see attached)**
- 3. Discussion on fire hydrant clearing in winter weather – Blaine Dunn**
- 4. Discussion on medical response to nearest fire station/EMS unit – Blaine Dunn**
- 5. Update on red light cameras on school buses – Walt Cunningham**

New Business:

Next Meeting Date: December 20, 2018



Dennis D. Linaburg
Fire Chief

MEMORANDUM

TO: Public Safety Committee

FROM: Dennis Linaburg
Fire Chief

SUBJECT: FY20 Budget Priorities

DATE: November 13, 2018

We have prioritized and outlined our FY20 Budget requests which includes positions and related vehicles. One of the biggest challenges the Fire and Rescue Department currently faces is ensuring a succession plan is in place as many of our Senior Staff are eligible for retirement. While the Department may request and outline additional needs as we continue working on the next budget, the items below represent the most critical requests.

We have reviewed the different Staffing Alternatives presented within the Fire and Rescue Study Report and have selected Alternative 2 as the starting point for developing the Department's Five-Year Plan. With that, station staffing and ensuring there is coverage to support the increase in minimum staffing is a significant priority for the future of the Department.

In addition to increasing the minimum station staffing, the Department will need to address supervision amongst each shift to ensure span of control is managed. An Assistant Chief, an additional Assistant Fire Marshal and support staff are also necessary to manage the daily operations of the Combination Fire and Rescue System.

Lastly, there are several capital items needing replaced for the safety of the Department. This includes radio equipment and tower site upgrades and repairs, replacement of Ambulance 10, the Public Education Trailer, and the Training Division's Chief vehicle. New response vehicles and equipment will also be necessary for the addition of the Assistant Chief, the Assistant Fire Marshal and Shift Supervisor.

If you need additional information or have any questions relating to these requests, please feel free to contact me to discuss further.



MEMORANDUM

To: Robert Wells; Chairman Public Safety Committee

From: LeeAnna Pyles; Director *LeeAnna Pyles*

Date: November 13, 2018

Ref: Increase in budget requests

Re-fund the Department's Operation Supervisor position with a salary of \$60,323.00 plus benefits. This position was unfunded 2 years ago. The department is in need of an assistant to the Director and also for a succession plan for the Director's position.

Purchase RAVE 9-1-1. This is a system that can quickly identify a more exact location of a 9-1-1 wireless using x y and z coordinates. It also enables citizens to add information under their phone number that the dispatcher would have access to immediately if a 9-1-1 call is placed. This could include family member information, photos, medical conditions, disabilities, pet information, which would allow the dispatcher to make more informed decisions on the onset of the initial dispatch. First years cost is \$26,376.25 and the following years could be \$18, 618.60 (\$3103.10 per position). First year includes a one-time set-up and configure fee.

Purchase an interface from Central Square (CAD vendor) for text to 9-1-1. This would allow 9-1-1 texts messages received to be intergraded into the call history Without this interface, dispatchers would not be able to have access to the text except with a supervisor logging into another system. Cost is \$10,335.00. \$2000.00 annually.

Maintenance and contract will have an increase of \$30,000.00. Projected increase from Motorola for the 24/7 maintenance of the radio system.

Increase in telephone /postage. The monthly phone bills will increase by \$8880.77 per month with NG 911, however the state will reimburse this increase for 24 months after the deployment. The annual line item increase would be \$106,669.24.

Other operating line item increase of \$4000 for additional pub-ed materials, a large paper shredder for the center, air purifiers, etc.

Repair and maintenance will have an increase of at least \$6000.00 to replace microwave batteries. This will increase with quotes and estimates coming in for maintenance and upkeep at the sites.

Revenues for the department are ↑ \$500,000.00.

\$256,569 for the NG911 upgrade

\$680 for tower rental

\$2000 educational grant

\$249,588 from 9-1-1 wireless

The Next Generation 9-1-1 (NG9-1-1)
Migration

FREDERICK COUNTY VIRGINIA

Challenges to Existing 9-1-1 System

9-1-1 now

- Nine, independent networks
- Extremely limited ability to process data
- Decades old technology
- CORE ANALOG TECHNOLOGY IS GOING AWAY

Evolving telecommunications

- Multiple service providers/technologies
- New technologies/applications continually developed
- Increased flexibility/mobility of citizens

What is Next Generation 9-1-1?

NG9-1-1 is the solution to existing challenges

- Migration from circuit (analog) to packet switched (IP) technology
- Unified network among PSAP; data transferability
- Required to meet the demands of new telecommunications technologies

Makes data available

- About the caller, the incident, and among PSAPs and first responders

Migration to NG9-1-1 in Virginia

Has begun

- Fairfax County and AT&T contract
 - Deployment of an ESInet and NG9-1-1 core services
 - Contract available to all localities
 - Recommendation of VA 9-1-1 Services Board

Choice of NG9-1-1 provider is a local decision

Code of Virginia section 56-484.16 requires migration by July 1, 2023

Planning and Recommendation

NG9-1-1 Migration Proposal

- VITA-ISP developed document based on the Fairfax County contract
- Includes information on:
 - The AT&T solution
 - PSAP's existing systems and readiness for NG9-1-1 deployment
 - Description of network availability, redundancy and diversity for each locality
 - Associated costs and financial support offered by the Virginia 9-1-1 services board

Benefits of the AT&T ESInet™

Nationally distributed architecture

- Increased reliability of the network

Interoperability among PSAPs

- Allows data transfer with calls

Integrated text to 9-1-1

Dedicated Network Operations Center, management team and support

Customer management portal

- Initiate alternate routing plans

Able to support future media; photos & video

Role of GIS in NG9-1-1

One of the most time consuming efforts of moving to an NG9-1-1 system will be the preparation of GIS data

- Used to provide location validation and routing of 9-1-1 calls to the appropriate PSAP

Synchronization of the MSAG with the GIS centerline and address point data

MSAG/ALI analysis

Deployment Funding

Equipment and systems

- Funding provided by the 9-1-1 Board

Connectivity

- Funding provided by the 9-1-1 Board

Legacy 9-1-1 charges

- Covered by the 9-1-1 Board

Monthly recurring charges

- Difference between current and future charges covered by 9-1-1 Board for 24 months
 - Refer to your migration proposal for specific costs

Monthly Recurring Charges

Current monthly 9-1-1 Service Charge = around \$4,641.58

- Based on current landline subscriber counts

Proposed AT&T Monthly 9-1-1 Service Charge = not to exceed \$12,237.61

- Includes all the services and benefits mentioned

A monthly difference of \$7596.03

- 9-1-1 board will cover this difference in expense for 24 months after deployment

Path Forward

Documents to review

- NG9-1-1 Migration Proposal
- Existing Fairfax County contract
- Proposal Acceptance Letter (PAL) = funding request
- AT&T Participation Agreement

Decisions and Options

- Proceed utilizing the Fairfax contract
- Execute an RFP
- Search for & review other procurement options

Va 9-1-1 Board's Guiding Principles

9-1-1 is an essential, local/regional service

Need to address ALL of 9-1-1 not just NG

Full stakeholder engagement is needed

Services must not be degraded

Economies need to be leveraged

Doing nothing is NOT an option (legislation)

NG9-1-1 non-recurring cost	\$4000.	Flat rate form AT&T
CHE upgrade	\$150,000	Replacement in FY20
I3Deployment	\$30,000	Firewalls and professional services
CAD		Not required
Text-to-911		Not required
Mapping upgrade		Not required
Voice logging upgrade		Not required
eCats Data analytics expansion	\$1,000	I3 loggin and text to 911
Other system upgrade		Not required
Rack space		None needed
Diverse connectivity	\$650,649.09	29k+ feet of new fiber
Disaster recovery upgrade		Not required
Secondary PSPA		None
GIS data preparation		Not required
Legacy 9-1-1 transition	\$7827.90	Verizon costs
Project management		None requested
Total	\$843,476.99	
Recurring	\$213,138.48	For 24 months from deployment