



# Council Agenda Report

**From:** Phil Garcia, Interim Fire Chief  
**Subject:** Emergency Services Equipment Replacement  
**Date:** April 4, 2017

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## Facts

1. Best practice is for the City to purchase replacement equipment in accordance with standard equipment replacement schedules. However, due to the recession, the Department of Emergency Services (ES) has been unable to replace EKG monitors and extrication equipment for a period that greatly exceeds their respective service lives.
2. The equipment listed in the attached Exhibit A is recommended for purchase utilizing the Equipment Replacement Fund.

## Options

1. Take no action;
2. Approve the purchase of the equipment listed in Exhibit A, using the Equipment Replacement Fund.
3. Amend, modify, or reject the above option.

## Analysis and Conclusions

The following equipment is recommended for replacement (as described below) in response to changes in technology that have made our current equipment obsolete:

**EKG Monitors:** ES currently has three EKG Monitors that are utilized on a daily basis for all EMS calls. These EKG monitors are obsolete, are costly to repair, and are no longer compatible with the EKG monitors of the local ambulance company. Ideally, these monitors would have been replaced at the end of their usual service life, but due to the recession, this has not been possible. Of the three monitors, the first is 10 years past its service life, the second is 9 years past its service life, and the third was due for replacement in 2016. The new monitors will be using a new reporting format that is tablet based and will assist with continuity of care. Our current EKG monitors are unable to transmit critical data wirelessly to the new patient care reporting software. The new monitors will enhance our ability to transmit data and improve overall patient care.

**Extrication Tools:** The ES currently has two Hurst combination extrication tools, one on each of the first-due engines. Both tools reached their maximum service life in 2009, but due to the recession, have not been replaced. Automotive manufacturers have responded to new vehicle safety legislation with greater safety features, which have increased the strength of materials used to protect passenger space compartments. In 2003, automotive manufacturers began installing boron steel in locations throughout vehicles in order to meet new safety requirements. The current extrication tools are not able to perform the cutting and spreading operations needed to extract patients from newer vehicles. ES has a Heavy Rescue vehicle that is equipped with these tools, but due to limited staffing and storage capacity on the fire engines, they are not readily available. With every passing year, the number of vehicles with enhanced safety features will increase. The new tools will give us first response capabilities for extrication on our fire engines enabling us to meet the technological advances that exist in our changing environment.

**Fiscal Impact**

The replacement equipment will be purchased using the Equipment Replacement Fund, Fund 125. ES had budgeted \$100,000 for a breathing air compressor in the FY 2017-18 budget, but applied for and received a grant covering the full cost in FY 2016-17. Thus, the three new EKG monitors (approximately \$36,000 each) and two extrication equipment tools (approximately \$12,075 each) will cost the Equipment Replacement Fund a net of only \$32,100 in the FY 2017-8 budget. The fund has a current balance of \$3,061,000.

**Recommendation**

Approve Resolution 17-xxx approving the purchase of three EKG monitors and 2 extrication tools, as detailed in Exhibit A, for the Emergency Services Department, using the Equipment Replacement Fund.

**Attachments**

1. Exhibit A

## Emergency Services Equipment to be Replaced

### A. Equipment Type

1. EKG Monitors
  - Make- Zoll E Series
  - Year- 2006
  - Useful Life- 7 years

### Replacement Item

2. EKG Monitors (3)
  - Make- Zoll – 12 lead capable EKG
  - Year- 2017
  - Useful Life- 7 years
  - Purchase Price- \$ 35,993 ea.
  - Total Cost: \$107,979

### Reason for Replacement

- Equipment is past its useful life and due for extensive updates and service items. This piece of equipment needs to be replaced.

### B. Equipment Type

1. Extrication Equipment
  - Make- Hurst Palladin
  - Year- 1994
  - Useful Life- X years - 15

### Replacement Item

2. Extrication Equipment (2)
  - Make- Hurst Combi Tool/ Rescue System
  - Year- 2017
  - Useful Life- 10 years
  - Purchase Price- \$ 12,075 ea.
  - Total Cost: \$24,150

### Reason for Replacement

- Equipment is past its useful life and due for extensive updates and service items. This piece of equipment needs to be replaced.