



MEMORANDUM

To: Mayor and City Council

From: Kevin Richardson, Fire Department

Date: November 29, 2017

Reference: Purchase of Physio Control Cardiac Monitor Equipment

2030: Sustainable City Government

Introduction:

The Coppel Fire Department currently provides the highest level of Emergency Medical Service authorized by the Texas Department of State Health Services. This premier level of Advanced Life Support ALS is primarily related to abilities to treat cardiac emergencies. The ability to arrive quickly and perform patient assessment with early recognition and appropriate treatment for heart attacks has saved many lives. Cardiac Monitoring equipment capable with electrical shock therapy is the primary piece of equipment directly responsible for successful patient intervention and cardiac survivability. This critical piece of equipment has developed over the years and provides improvements for ECG monitoring, 12 Lead Electrocardiography, SpO2, SpCO monitoring, Blood Pressure monitoring, Cardiac Pacing, End-Tidal CO2 monitoring, and Electrical Shock Therapy.

Analysis:

The CFD currently supports the Advanced Life Support model for all Emergency Response Units. This insures the highest level of EMS capabilities for all Ambulances, Fire Engines, and Ladder Trucks and has been the standard of care for many years. Our current Cardiac Monitoring equipment was purchased 7 years ago and has been deployed on approximately 20,000 EMS calls for service and has reached the end of its expected life span.

This request is to replace the existing Cardiac Monitors, Defibrillators and support equipment/accessories currently in use. CFD has conducted extensive research that included product shows, conferences, field study, referrals, service, reliability, and value. Physio Control is the recommended vendor. The CFD is familiar with their products and have been using them for many

years and confident in their brand, service, and equipment. Technology upgrades and improvements will provide additional features such as new monitoring parameters, advanced support for treating STEMI patients, potent escalating energy sources, CPR guidance, dual-mode LCD screens, lithium-ion battery technology, data connectivity, ruggedized casing, carbon monoxide and methemoglobin monitoring, 12 Lead ECG transmissions, ergonomic design, touch screen, lighter weight.

Consequences of not funding the request may result in reduced services for cardiac arrest patients and other critical medical conditions. The potential exists for unreliable equipment, frequent down time, extended service calls, and excessive maintenance. Older technology may lead to compatibility issues with regional medical providers and hospitals.

Legal Review:

Agenda item did not require legal review.

Fiscal Impact:

This request is to purchase Physio Control Cardiac Monitors, Automated External Defibrillators devices and additional accessories to replace existing equipment within the Coppell Fire Department. The fiscal impact of this agenda item will not exceed \$450,000. Funds have been approved in the 2017-18 budget, Fire Department account 01-04-09-5060.

Recommendation:

The Fire Department recommends approval.