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**Title:** APPROVAL FOR THE PURCHASE OF AUTOMATIC EXTERNAL DEFIBRILLATORS FOR FIRE DEPARTMENT AND CITY FACILITIES AND PURCHASE OF "X" SERIES ADVANCED MONITOR /DEFIBRILLATORS

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Date	Ver.	Action By	Action	Result
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**TITLE:**

**APPROVAL FOR THE PURCHASE OF AUTOMATIC EXTERNAL DEFIBRILLATORS FOR FIRE DEPARTMENT AND CITY FACILITIES AND PURCHASE OF "X" SERIES ADVANCED MONITOR /DEFIBRILLATORS**

**DEPARTMENT:** FIRE & RESCUE DEPARTMENT AND FINANCE DEPARTMENT

**PRESENTED BY:** JASON PYLE, OPERATIONS DIVISION CHIEF KRISTIN STEVENS, MANAGEMENT ANALYST JUSTIN HORNER, FIRE CAPTAIN / EMS MANAGER

**CONTACT INFORMATION:** DANIEL A. STEFANO, FIRE CHIEF, (714) 754-5106

**RECOMMENDATION:**

Staff recommends the City Council:

1. Authorize the use of GPO NPP contract no. PS20200 with Zoll Medical Corporation for the purchase of thirty-one (31) AEDs for the Fire Department and twenty-four (24) for City Facilities. (Attachment 1)
2. Authorize the use of GPO NPP contract no. PS2022 with Zoll Medical Corporation for the purchase of twelve (12) "X" Series Advanced Monitors/Defibrillators. (Attachment 2)
3. Approve and authorize the City Manager and City Clerk to execute the necessary documents to purchase the automatic external defibrillators (AED's) and "X" series monitors/defibrillators.

## **BACKGROUND:**

### **AED's:**

The citywide Public Access Defibrillation (PAD) program was implemented in 2007, with the goal of increasing the likelihood of survival from sudden cardiac arrest by minimizing the collapse-to-defibrillation interval with strategically placed Automated External Defibrillators (AED) and CPR/AED trained city employees.

AEDs have been placed at strategic locations in city facilities throughout Costa Mesa and in specifically selected city vehicles (Attachment 3). AEDs are intentionally placed so that they be accessed and used by both city employees and members of the general public who have been trained.

An automated external defibrillator (AED) is a device that automatically analyzes the heart rhythm in patients suffering from cardiac arrest. The device delivers an electrical shock to the heart to restore its normal rhythm and is important lifesaving equipment in providing a rapid response to victims of cardiac arrest.

### **"X" Series Advanced Monitor/Defibrillator:**

To provide Paramedic/Advance Life Support level care for the residents of Costa Mesa, the Fire Department is required to carry manual cardiac monitor-defibrillators on all of its Fire Engines and Fire Trucks. These units perform critical diagnostic and treatment interventions necessary to provide the appropriate care for patients with cardiac and other life threatening emergencies.

Zoll Corporation has the cardiac resuscitation system that meets the needs and specifications of the Fire Department and provides the systems that CMFR currently use and train with. Currently, the Fire Department carries six (6) Zoll "Auto Pulse" automatic Cardio Pulmonary Resuscitation (CPR) chest compression devices on our fire apparatus, which are used in conjunction with the "X" Series monitors for the treatment of cardiac arrest victims.

Costa Mesa Fire & Rescue has invested in significant training on modern cardiac arrest management concepts utilizing Zoll equipment and technology. Maintaining and upgrading our Zoll equipment ensures that we continue on the path to providing the best possible out of hospital cardiac arrest care with the goal of maximizing not only successful resuscitations, but neurologically intact discharges from the hospital.

## **ANALYSIS:**

### **AEDs:**

AED's have been placed at strategic locations in city facilities throughout Costa Mesa and in specifically selected city vehicles. AEDs are intentionally placed so that they can be readily and easily accessed. AED's are currently located throughout each floor of City Hall, throughout the Police Department building and various City Facilities, including Balearic Community Center, Senior Center, Jack Hammett Field and Aquatic Center to name a few. The recommended replacement of the units is between eight to ten years from date of manufacture and of the 58 AEDs in use, all have expired,

some as far back as 2019. The purchase of these specific AED's allow integration with the Fire Departments monitors/defibrillators.

**X Series Advanced Monitor/Defibrillator - 12 Lead ECG:**

- **Equipment Integration & Compatibility-** only the Zoll system is designed for, and capable of, electronic interface between the Zoll “X” Series monitor-defibrillator and the Zoll “Auto Pulse” automatic “CPR” chest compression device.
- **Twelve (12) Lead Technology-** only the Zoll “X” Series monitor-defibrillator uses the innovation 12 lead algorithm which improves the reliability of the tracings and enables the paramedics to get the patient to the appropriate Cardiac Receiving Center faster.
- **Improved Technology- Real Time CPR Quality Analysis -** The Zoll “X” Series monitor-defibrillator has a feature that provides real time feedback to firefighters when performing manual “CPR” that helps ensure the compressions and ventilations administered are of the correct depth, rate, and timing.
- **Improved Technology- See Through CPR”-** The Zoll “X” Series monitor-defibrillator has a feature that allows paramedics to determine the patient’s cardiac rhythm without interrupting chest compressions. The American Heart Association has determined that delivering consistent high quality “CPR” with minimal interruptions significantly improves the chance of survival for cardiac arrest victims.

**ALTERNATIVES:**

The City Council could choose not to approve the purchase of the AED's and “X” series monitors/defibrillators.

**FISCAL REVIEW:**

The total cost for procurement and delivery of fifty-five (55) Automated External Defibrillators through the GPO Contract no. PS20200 pricing is \$138,120 including sales tax and the funding will be through account string 510502-101-16200-10230 (Safety and Health) in the operating budget of the Fire Department during Fiscal Year 2022-23. The total cost of procurement and delivery of “X” series monitors/defibrillators through the GPO Contract no. PS20200 pricing is \$580,480 including sales tax and the funding will be through account string 510502-101-16200-10230 (Safety and Health) in the operating budget of the Fire Department during Fiscal Year 2022-23.

**LEGAL REVIEW:**

The City Attorney’s Office has reviewed the documents and approved them as to form.

**CITY COUNCIL GOALS AND PRIORITIES:**

This item supports the City Council Goal:

- Strengthen the Public’s Safety and Improve the Quality of Life

**CONCLUSION:**

The City Council's approval for the purchase of AED's will provide current AED's to replace the expired ones located throughout all City Facilities and within Fire & Rescue's fleet. The City Council's approval for the purchase of "X" Series Advanced Monitor/Defibrillators will replace the Fire Departments current outdated equipment with modern equipment that utilizes updated technology.

Staff recommends the City Council:

1. Authorize the use of GPO NPP contract no. PS20200 with Zoll Medical Corporation for the purchase of AEDs for the Fire Department and for City Facilities Authorize the City Manager and City Clerk to execute the necessary documents to support public safety.
2. Authorize the use of GPO NPP contract no. PS2022 with Zoll Medical Corporation for the purchase of "X" Series Advanced monitors/defibrillators.
3. Approve and authorize the City Manager and City Clerk to execute the necessary documents to purchase the automatic external defibrillators (AED's.)