

 <div style="text-align: center;"> <h1 style="margin: 0;">Council Communication</h1> <p style="margin: 0;">Office of the City Manager</p> </div>	Date:	May 6, 2013
	Agenda Item No.	37B
	Roll Call No.	[]
	Communication No.	<u>13-219</u>
	Submitted by:	John F. TeKippe, Fire Chief

AGENDA HEADING:

Approval to purchase seven (7) piston driven chest compression devices for use in Fire Department ambulances.

SYNOPSIS:

Recommend purchasing seven (7) Lund University Cardiac Arrest System (LUCAS) devices for use in Fire Department ambulances from Physio-Control, 11811 Willows Road NE, Redmond, WA 98073, Brian Webster, President, per State of Iowa Contract 4061-11.

FISCAL IMPACT:

Amount: \$98,306.75

Funding Source: \$19,661.35 available from 2012 Capital Improvement Project FIR013 CP041 FIR990000, FY014, page 5 Fire Protection Improvements. \$78,645.40 available from U.S. Department of Homeland Security and FEMA 2012 Assistance to Firefighter Grant (AFG).

ADDITIONAL INFORMATION:

Through a competitive purchasing process the Fire Department has identified the Physio-Control LUCAS device to be our choice to fulfill the requirement of the 2012 Assistance to Firefighter Grant (AFG) for seven (7) piston driven chest compression devices.

Implementing LUCAS devices will increase the likelihood of survivability of sudden onset cardiac arrest in the City of Des Moines and greatly enhance the safety of our employees. Cardiovascular emergencies continue to be one of the most common calls that our out-of-hospital emergency medical care and transportation system responds to, and as our population ages and people live longer, we anticipate an increase in cardiac arrests. The implementation of these devices into our EMS delivery system will give our patients a much better chance of survival. Specific benefits of the equipment include:

1. A LUCAS device circulates cardiac drugs faster and more completely. Medications that reach the heart from improved circulation may increase the effectiveness of defibrillation.
2. Improved circulation of blood causes the veins to be more visible, making it easier for a paramedic to initiate an IV for fluid and medication administration.
3. Using the LUCAS device will reduce the potential for injury to rescuers since they can remain seated and restrained while the device provides consistent, quality chest compressions.

4. The device reduces rib fractures and cartilage damage when compared to manual compressions during CPR.
5. The use of a LUCAS device has shown to improve coronary perfusion pressure during cardiac arrest. Improving coronary perfusion pressure improves oxygenation of the heart and increases the likelihood of successful defibrillation into a perfusing rhythm and return of spontaneous circulation.

PREVIOUS COUNCIL ACTION(S):

Date: February 11, 2013

Roll Call Number: [13-0222](#)

Action: [U.S.](#) Department of Homeland Security and FEMA 2012 Assistance to Firefighter Grant (AFG) award of \$80,727 for the purchase of piston driven chest compression devices. ([Council Communication No. 13-061](#)) Moved by Hensley to approve. Motion Carried 7-0.

BOARD/COMMISSION ACTION(S): NONE

ANTICIPATED ACTIONS AND FUTURE COMMITMENTS: NONE

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