

 <p style="text-align: center;">Council Communication Office of the City Manager</p>	Date:	February 11, 2013
	Agenda Item No.	38
	Roll Call No.	<u>13-0222</u>
	Communication No.	<u>13-061</u>
	Submitted by:	John F. Tekippe, Fire Chief

AGENDA HEADING:

Approval of the 2012 Assistance to Firefighter Grant (AFG) program award of \$80,727 for the purchase of piston driven chest compression devices.

SYNOPSIS:

Recommend approval of the Des Moines Fire Department 2012 AFG program award of \$80,727 from the Federal Emergency Management Agency (FEMA) and U.S. Department of Homeland Security (DHS). The Des Moines Fire Department will use these funds for the purchase of 7 (seven) piston driven chest compression devices.

FISCAL IMPACT:

The total award amount is \$80,727 and requires a 20% match of \$20,181. The total project cost is anticipated at \$100,908.

Amount: \$20,181

Funding Source: 2012 Capital Improvement Project Budget FIR013 CP041 FIR990000, FY014, page 5 Fire Protection Improvements.

ADDITIONAL INFORMATION:

Implementing piston driven chest compression 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 piston driven chest compression 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 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 an Automated Chest Compression 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: June 25, 2012

Roll Call Number: [12-0991](#)

Action: [Application](#) for U.S. Department of Homeland Security 2012 Assistance to Firefighters Grant. ([Council Communication No. 12-355](#)). Moved by Hensley to adopt. Motion Carried 7-0.

BOARD/COMMISSION ACTION(S): NONE

ANTICIPATED ACTIONS AND FUTURE COMMITMENTS: NONE

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