



THE CITY OF KEY WEST

Post Office Box 1409 Key West, FL 33041-1409 (305) 809-3939

## EXECUTIVE SUMMARY

**To:** Jim Scholl, City Manager  
**From:** Edward Perez, Division Chief of EMS, KWFD  
**Date:** October 26, 2016  
**Reference:** Lucas Chest Compression System Purchase

### Action Statement:

The Key West Fire Department proposes the purchase of three (3) Lucas 2.2 Chest Compression Systems, from Physio Control for \$59,417.51, pursuant to the City of Key West code of Ordinance, Section a – 797 (1) Sole Source Procurement and Section 2-844 (a) (b) (Brand Name).

Sec. 2-844. Brand name specifications.

(a) *Use.* Since use of a brand name specification is restrictive of product competition, it may be used only when the purchasing agent makes a written determination that only the identified brand name item will satisfy the city's needs.

(b) *Competition.* The purchasing agent shall seek to identify sources from which the designated brand name item can be obtained and shall solicit such sources to achieve whatever degree of price competition is practicable. If only one source can supply the requirement, the procurement shall be made under the sole source procurement provisions of [section 2-797](#)

Sec. 2-797. - Exemptions.

(1) *Sole source procurement.* Sole source procurement in accordance with the following:

(a) All specifications shall be drafted so as to promote overall economy for the purposes intended, to encourage competition in satisfying the city's need, and shall not be unduly restrictive. Brand name specifications are restrictive of competition and shall be used only as specifically provided in [section 2-844](#).

(b) A contract may be awarded without competition when the department head makes a written determination and the purchasing agent verifies that, after conducting a good faith review of available sources, there is only one source for the required commodity or contractual service. The city manager shall conduct negotiations as appropriate as to price, delivery and terms. A record of sole source

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procurement shall be maintained as a public record and shall list each contractor's name, amount and type of each contract; a list of the commodity or contractual service procured under each contract; and the identification number of each contract file.

(c) All sole source procurement where the cost of the commodities or contractual services exceeds \$20,000.00 shall be authorized by the city commission

### Strategic Plan/Business Plan:

The Key West Fire Department is equipping our front line rescues with an automatic compression system known as the Lucas Devices. Staff has evaluated and identified Physio-Control as the leader in the industry and the desired brand. Physio-Control is the manufacturer and sole source provider for the Lucas 2.2 Chest Compression Systems which deliver uninterrupted, high quality compressions on patients during cardiac arrest events. Physio-Control is the manufacturer for our LifePak 15 cardiac monitor's and Automated External Defibrillators' we carry on all of our Rescue units and Fire Apparatus. Purchasing Physio-Control's brand specific Lucas 2.2 Chest Compression System will ensure the compatibility of all of our life saving equipment.

### Specifications:

- 2<sup>nd</sup> generation chest compression system based on 13 years of data, more than 18,000 devices deployed, and 200+ publications.
- Chest compressions consistent with AHA and ERC guidelines, delivered in the middle of the chest.
- Unique compression using piston with suction cup designed to stabilize the compression point, and which may assist chest recoil back to the start position.
- 100 + compressions per minute.
- Compression depth of 2.1 plus or minus 0.1 inches for patients with sternum height greater than 7.3 inches
- Compression modes, 30:2 (30 compressions followed by a 3 sec ventilation pause), continuous compressions with 8 ventilation alerts per minute.
- Indications, adult patients in cardiac arrest where chest compressions are likely to help the patient.

### Proprietary Item:

The Lucas 2.2 Chest Compression System

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### Justification:

- The worlds most used mechanical CPR Device
- Over 99% good neurological outcome in patients who receive CPR with a Lucas Device.
- Shown to increase blood circulation to heart and brain
- Shown to reduce interruptions at the scene, during patient movement and transportation compared to manual CPR.

### Financial Impact:

The total cost to purchase three (3) Lucas 2.2 Chest Compression Systems from Physio Control is \$59,417.51. This amount has been budgeted for and adopted in FY 2016-2017 EMS Infrastructure Surtax account 101-2601-526-6400.

### Options:

- 1) The City Commission could approve the purchase to ensure all front line KWFD operated ambulances are safely equipped with the Physio-Control Lucas 2.2 Chest Compression Systems.
- 2) The Commission could decline to approve the purchase in which case staff would have to identify alternatives to the Physio-Control Lucas 2.2 Chest Compression Systems.

**Edward Perez, Division Chief of EMS**

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