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January 24, 2024

Honorable Eunisses Hernandez, Chair
Neighborhoods and Community Enrichment Committee
City Clerk, Room 395, City Hall
Attention: Eric Villanueva

**RESPONSE TO [COUNCIL FILE 22-1088](#) RELATIVE TO COSTS OF PROVIDING
AUTOMATED EXTERNAL DEFIBRILLATORS (AEDs) AT RAP FACILITIES**

SUMMARY

On September 16, 2022, the Arts, Parks, Health, Education, and Neighborhoods Committee instructed the Department of Recreation and Parks (RAP), with assistance from the Fire Department (LAFD) and the Chief Legislative Analyst to report back to the Council on the total number and locations of automated external defibrillators (AEDs) available at all RAP facilities.

BACKGROUND

AEDs at parks allow access to safety equipment that can save a life from cardiac arrest. According to available records, there have been an annual average of three emergency events between 2018-2022 where the AED was used as part of emergency care at a RAP Facility.

Currently, RAP has an inventory of 310 AED units distributed throughout RAP 282 sites. It should be noted that aquatic facilities are required to maintain an AED on hand for emergencies. In order to fully equip each RAP facility with an average of one AED per site, there is a need for approximately 56 additional AED units.

LAFD currently administers the City's Public Access Defibrillator (PAD) Program. As such, LAFD is tasked with purchasing, installing, and monitoring the AED units. Funding for additional AED units will allow RAP to secure this equipment through LAFD. RAP's Aquatics Division is a registered training provider of the American Heart Association (AHA) and provides training to staff.



Costs of Securing New AEDs at City Recreation and Park Facilities

New Equipment

The estimate for equipping additional locations is based on the Philips HeartStart FRx AED is \$143,652. This includes the child-key and the wall-bracket which allows for the most flexibility in use and placement compared to the Onsite model. The child-key with the FRx allows for the use of the unit on an adult or child without having to reconfigure the AED prior to use. Additionally, the wall-bracket is more cost effective, has a smaller profile, and easier to install.

Cost of 56 new AEDs	\$143,652.00
Labor for installation of new AEDs	\$8371.44
Total initial cost for new AEDs (purchase and installation)	152,023.44

10 Year Maintenance and Training for ALL AEDs (existing plus the 56 new)

Equipment/materials maintenance costs for ALL AEDs (existing and 56 new) for 10 years (28,704 x 10)	\$287,040.00
Labor maintenance cost for ALL AEDs (existing and 56 new) for 10 years	\$321,110.10
Employee training on use for ten years (First Aid and AED training)	\$646, 641.60
TOTAL	\$1,254,791.70

Grand Total 10 year cost (purchase and maintenance)	\$1,406,815.14
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Labor:

Cost assumptions include hourly rate of a City Carpenter, 3 hours of travel/labor:

Carpenter hourly rate	\$49.83
3 Hours per installation of 56 new AEDs	168
Total Labor Installation Cost	\$8,371.44

Ongoing Maintenance cost for all RAP AEDs:

Equipment

According to LAFD, pads should be replaced every 2 years and batteries have an average life of 4 years. Below is the average cost on an annual basis:

Cost of FRX pad replacement (annual average \$62.00/2 years)	\$31.00
Cost of Onsite pad replacement (annual average \$75.00/2 years)	\$37.50
Total current Onsite AED Units	207
Total current FRX AED Units	103
Total Additional proposed FRX AED units	56
Cost of battery replacement (annual average \$175.00/4 years)	\$43.75
Total units for all RAP facilities	310
Total Additional proposed Units	56
Total equipment cost	\$28,704.00

Labor:

Cost assumptions include hourly rate of LAFD's Senior Management Analyst currently overseeing LAFD PAD program, 2 hours of travel/labor:

Sr. MA hourly rate	\$58.49
Pads - 2 Hours maintenance for each of 310 AEDs (Annual Average rate/2 years)	\$18,131.90
Battery - 2 Hours maintenance for each of 310 AEDs (Annual Average rate/4 years)	\$9,065.95
Pads - 2 Hours maintenance for additional units of 56 AEDs (Annual Average rate/2 yrs)	\$3,275.44
Battery - 2 Hours maintenance for additional units of 56 AEDs (Annual Average rate/4 yrs)	\$1,637.72
Total Labor Maintenance cost	\$32,111.01

Training Cost and Requirements:

Title 22, § 100041 of the California Code of Regulations requires that for every AED unit acquired up to five units, no less than one person be required to complete a course in CPR and the use of AEDs. After the first five AED units are acquired, one rescuer must be trained for each additional five AED units acquired. In the past, LAFD has recommended that five employees be trained per AED unit to ensure that there is a trained rescuer onsite during various work shifts, while staffing changes, employee vacation, etc.

The regulation further requires that the employees be trained every two years at a minimum.

Training cost assumptions include training 5 employees per AED unit, with 20 employees per class.

Number of employees to be trained biennially (5 x 366 AEDs)	1830
Total number of classes (20 employees per class)	92
Instructors (ratio 7:1)	262
Class hours per class	8
Instructor charge (rate \$31.77/hr)	\$66,589.92
Book Charge (rate \$3.00 per person)	\$5,490
Certification Charge (rate \$20.00)	\$36,600
Cleaning (1 hour rate \$31.77 per class)	\$2,922.84
Transporting Equipment (2 hour fee \$63.54)	\$5,845.68
Equipment Replacement (flat fee \$25.00)	\$2,300
Total Cost of training	\$119,748.44
Grand total w/ 8%MRP charge included	\$129,328.32
Average annual cost (1 training every 2 years)	\$64,664.16

January 24, 2024

Sincerely,

A handwritten signature in black ink, appearing to read 'J/Kim', written in a cursive style.

JIMMY KIM
General Manager

CC: Hon. Paul Krekorian, Councilmember 2nd District