



Tohono O'odham Nation Proposition 202 Grant Proposal



Description of the Project:

It is the intent of the City of Casa Grande Fire Department to secure funding of **\$40,933.62** through the Tohono O'odham Nation and Proposition 202, for two (2) LUCAS Chest Compression Systems. It is believed that these systems will provide the resources needed to save the life of a citizen within the Casa Grande community or our neighboring communities, who has suffered a cardiac arrest and assist them in returning to a quality of life that is acceptable and expected by our respective communities.

a) Explain the perceived need and explain how the proposal will address that need.

In today's world it is imperative that Fire Departments and EMS agencies find adaptive ways to meet the needs of their respective communities and maintain a high level of quality service and safety to citizens and responding personnel. As cities grow, they tend to move away from the center of population, expanding outwards. As this growth occurs Fire and EMS agencies find themselves strategizing to place apparatus and personnel strategically to respond to the needs of the community.

The current perceived need defines the organizational ability to maintain continuous compressions during cardiac arrest events until the patient is delivered to the appropriate receiving facility. Additionally, response personnel maintain a safe environment during transport. The time associated with "Event Occurrence to Definitive Care" continues to grow as communities move further into the rural setting. It is said that time is muscle and every second lost causes extensive and irreversible damage.

Many organizations do not have the ability to add personnel or build new stations to keep up with growing demand. By funding this program, you will be assisting the organization in their continued efforts and achieving our goals of providing quality care to our citizens as well as surrounding communities. In times such as these, it becomes important to build a high-quality EMS system that is continuously advancing toward a safer goal that improves patient, provider, and population outcomes.

The LUCAS chest compression device performs effective, guidelines-consistent chest compressions with minimal interruptions. This helps ensure chest compressions that are both safe for the patient and for the rescuers (specifically focusing on the ability to maintain distance from suspected and confirmed COVID-19 patients) during ambulance transport.

Some patients will require ongoing chest compressions during transportation in an ambulance. As many as 30-40% of patients who have achieved return of spontaneous circulation on the scene will re-arrest prior to hospital arrival, some during the transport. However, it is well known that it's nearly impossible to provide effective CPR with minimal interruptions in a moving ambulance. In addition, performing manual chest compressions during ambulance transport puts the rescuer's safety at risk. This system allows rescuers to remain seated and safely belted in the ambulance while the

Systems of care implementing LUCAS together with a comprehensive approach to resuscitation have shown increased ROSC rates as well as improved survival with good neurological outcomes compared to historical data.

For example, the Emergency Department at North Shore University Hospital, NY, significantly improved their ROSC rates, going from 26 % to 41%, using LUCAS chest compressions systems.

One important determinate of ROSC and neurologically intact survival is the actual number of chest compressions health care providers deliver to the patient during each minute of the resuscitation period. In general, resuscitation strategies which provide more rather than fewer chest compressions per minute result in better outcomes. In order to accomplish this, rescuers must limit interruptions in chest compressions. One metric that highlights the importance of minimizing interruptions is the chest compression fraction (CCF). The CCF represents the proportion of time during the resuscitation attempt that someone is actually pushing on the patient's chest. Therefore, based on recent studies, one can only conclude that high-quality CPR is better than low-quality CPR.

EMS quality efforts have historically focused on retrospective quality *assurance* to maintain a desired level of quality rather than prospective quality *improvement*. Such a static approach is insufficient given the rapidly evolving knowledge base. For example, our expectations of survival or recovery from conditions such as sepsis, stroke and out-of-hospital cardiac arrest have changed dramatically over the last few decades. The quantifiable outcome targets of today should not define those of tomorrow.

b) Describe the population who will benefit from the proposal if approved.

The City of Casa Grande hosts a population of approximately 65,000 citizens with an additional 20,000 during the winter months. The population that could benefit from this proposal is quite diverse. Although the first impression would be the focus on the elderly population as primary beneficiaries, the ability to respond to any age group is a reality as data shows a response to approximately 125 cardiac arrests for the calendar year 2020. The age ranges vary from 1 year to 90 years. The user of this device can adjust frequency and depth ranges to accommodate the demographics of each patient treated.

c) Include a budget of the requested funds, with the total amount requested clearly notated.

The following is the budgeted request of **\$40,933.62** with line-item costs:

1. 99576-000063: LUCAS 3, v3.1 Chest Compression System, Includes: Hard Shell Case, Slim Back Plate, (2) Patient Straps, (1) Stabilization Strap, (2) Suction Cups, (1) Rechargeable Battery and Instructions for use With Each Device
\$14,571.00 x 2= \$29,142.00
2. 11576-000060 LUCAS Desk-Top Battery Charger \$1,111.50 x 2= \$2,223.00
3. 11576-000071 LUCAS External Power Supply \$351.90 x 2= \$703.80

4. 11576-000080 LUCAS 3 Battery - Dark Grey - Rechargeable LiPo
\$679.50 x 2= \$1,359.00
5. 11576-000046 LUCAS Disposable Suction Cup (3 pack) \$133.20 x 2= \$266.40
Equipment Total: \$33,694.20
6. 78000020 ProCare LUCAS Prevent Service: 3-year annual onsite preventive maintenance inspection and unlimited repairs including parts, labor and travel with battery coverage for LUCAS 3, v3.1 Chest Compression System, Includes Hard Shell Case, Slim Back Plate, (2) Patient Straps, (1) Stabilization Strap, (2) Suction Cups, (1) Rechargeable Battery and Instructions for use With Each Device
\$3,790.80
- Equipment Total: \$33,694.20
ProCare Total: \$3,790.80
Estimated Sales Tax (9.200%): \$3,099.87
Freight/Shipping: \$0.00
- Grand Total: \$40,933.62**

d) List any other funding requests that have been made for this or substantially related proposals and provide the status of those requests.

The City of Casa Grande focuses on budgeting practices specific to operational programs and anticipated capital needs for the community. This program and device were recommended through our line personnel with the commitment of developing high-quality EMS service delivery within the City of Casa Grande and surrounding communities.

The City of Casa Grande and the Fire Department are continuously seeking new methodologies for service delivery and cutting-edge technologies that will enhance our ability to meet the needs of our growing community.

The City prioritizes capital expenditures based on current needs and the city's ability to fund requests. City leadership asks department directors to provide a list of capital requests and place a prioritization number on the request. The position of the fire department will prioritize the replacement of Cardiac defibrillators as well as increasing funding for medical supplies, which places the priority level of this program to slightly lower, typically causing an elimination from budgetary funding authority. As this program is cut from budgetary approval, it forces the department to seek funding from the Federal Government or our local partners and the Prop 202 program.

e) Indicate whether the entity has previously received a 12% distribution from TON or other Arizona tribes, along with the amount and date awarded.

The City of Casa Grande has participated in Proposition 202 grant funding program since its inception. The November 2002 decision to assist neighboring agencies through a grant process has been vital to lifting the service delivery and level of care and operations to new levels for those surrounding communities. The City of Casa Grande has submitted for many grants through

bordering Tribal Agencies with the most recent being fiscal year 2016 through the Ak-Chin Community in the amount of \$18,700.00 to implement the Pulse Point notification software; fiscal year 2018 through the Tohono O’odham Community in the amount of \$34,000.00 for the implementation and funding of the Active Shooter program ; and finally, through the Ak-Chin Community in the amount of \$34,960.00 for additional Personal Protective Equipment for personnel. The funding for all of these programs has proven to be quite valuable in our preparation for emergency response to the community.

f) Identify a designated contact person and an alternate contact person for follow-up, including e-mail address, phone number, mailing address, and fax number for these persons.

Tony Lafalce: Assistant Fire Chief, Operations.
tlafalce@casagrandeaz.gov

Office: 520-421-8777 X-5970
Cell: 520-270-0553
Fax: 520-836-1129

City of Casa Grande Fire Department
377 E. Val Vista Blvd.
Casa Grande, AZ. 85122

David Kean: Fire Chief
David_kean@casagrandeaz.gov

Office: 520-421-8777 X5940
Cell: 520-635-1139
Fax: 520-836-1129

City of Casa Grande Fire Department
377 E. Val Vista Blvd.
Casa Grande, AZ. 85122

g) Indicate which priority area (from the above list) the proposal falls under.

While reviewing the funding priority areas specific for this proposal, it is very clear that this request would fall under the Healthcare category, whereby programs and/or projects enhance the promotion of health, disease prevention, wellness activities, recreational activities that promote physical fitness, nutrition, behavioral health programs, drug, alcohol or tobacco use cessation, direct patient care, health education, and other programs that may assist in improving the overall health of participants or local communities.

Successfully funding this program will allow fire department resources to utilize cutting edge technology in their mission to provide quality care to the citizens of the city of Casa Grande. Additionally, it becomes a very important tool to our neighboring communities as the Casa Grande Fire Department responds to our surrounding areas under a mutual aid agreement for service. By funding this program, you are in fact enhancing the Tohono O’odham Nations emergency response to cardiac arrest.



LUCAS 3.1

Quote Number: 10380535

Version: 1
Prepared For: CASA GRANDE FIRE DEPT
Attn:

Quote Date: 05/25/2021
Expiration Date: 08/23/2021

Remit to: **Stryker Medical**
P.O. Box 93308
Chicago, IL 60673-3308
Rep: Joseph Weston
Email: joseph.weston@stryker.com
Phone Number: (480) 427-9310
Mobile: (480) 427-9310

Delivery Address

Name: CASA GRANDE FIRE DEPT
Account #: 1298616
Address: 377 E VAL VISTA BLVD
CASA GRANDE
Arizona 85122-6900

End User - Shipping - Billing

Name: CASA GRANDE FIRE DEPT
Account #: 1298616
Address: 377 E VAL VISTA BLVD
CASA GRANDE
Arizona 85122-6900

Bill To Account

Name: CASA GRANDE FIRE DEPT
Account #: 1298616
Address: 377 E VAL VISTA BLVD
CASA GRANDE
Arizona 85122-6900

Equipment Products:

#	Product	Description	Qty	Sell Price	Total
1.0	99576-000063	LUCAS 3, v3.1 Chest Compression System, Includes Hard Shell Case, Slim Back Plate, (2) Patient Straps, (1) Stabilization Strap, (2) Suction Cups, (1) Rechargeable Battery and Instructions for use With Each Device	2	\$14,571.00	\$29,142.00
2.0	11576-000060	LUCAS Desk-Top Battery Charger	2	\$1,111.50	\$2,223.00
3.0	11576-000071	LUCAS External Power Supply	2	\$351.90	\$703.80
4.0	11576-000080	LUCAS 3 Battery - Dark Grey - Rechargeable LiPo	2	\$679.50	\$1,359.00
5.0	11576-000046	LUCAS Disposable Suction Cup (3 pack)	2	\$133.20	\$266.40
Equipment Total:					\$33,694.20

ProCare Products:

#	Product	Description	Years	Qty	Sell Price	Total
6.1	78000020	ProCare LUCAS Prevent Service: Annual onsite preventive maintenance inspection and unlimited repairs including parts, labor and travel with battery coverage for LUCAS 3, v3.1 Chest Compression System, Includes Hard Shell Case, Slim Back Plate, (2) Patient Straps, (1) Stabilization Strap, (2) Suction Cups, (1) Rechargeable Battery and Instructions for use With Each Device	3	1	\$3,790.80	\$3,790.80
ProCare Total:						\$3,790.80



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Remit to:

Stryker Medical

P.O. Box 93308

Chicago, IL 60673-3308

Rep: Joseph Weston

Email: joseph.weston@stryker.com

Phone Number: (480) 427-9310

Mobile: (480) 427-9310

Price Totals:

Estimated Sales Tax (9.200%):	\$3,099.87
Freight/Shipping:	\$0.00
Grand Total:	\$40,933.62

Prices: In effect for 60 days.

Terms: Net 30 Days

Contact your local Sales Representative for more information about our flexible payment options.

AUTHORIZED CUSTOMER SIGNATURE



**City of Casa Grande
510 E. Florence Blvd,
Casa Grande, AZ 85122**

June 10, 2021

Chairman Ned Norris Jr.
Tohono O'odham Nation
P.O. Box 837
Sells, Arizona 85634

Dear Chairman Norris,

I authorize the submission of the Casa Grande Fire Department Emergency Equipment application for the 12% Gaming Distribution for the Tohono O'odham Nation. If awarded, I am authorized by the Mayor and City Council to enter into a grant agreement.

On behalf of the City of Casa Grande, thank you in advance for your consideration of city projects. The City looks forward to continuing our long standing partnership. If you have any questions or need further information, please contact me at (520) 421-8600 or at LarryR@casagrandeaz.gov.

Sincerely,

A handwritten signature in black ink, appearing to read 'Larry Rains', written over a horizontal line.

Larry Rains
City Manager