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MAY 22 2014



**Chandler • Arizona**  
*Where Values Make The Difference*

**MEMORANDUM                      FIRE**

**DATE:**            MAY 22, 2014

**TO:**                MAYOR AND CITY COUNCIL

**THRU:**            RICH DLUGAS, CITY MANAGER <sup>RD</sup>

**FROM:**            JEFF CLARK, FIRE CHIEF *JC*

**SUBJECT:**        RESOLUTION NO. 4767, GILA RIVER INDIAN COMMUNITY'S STATE –  
SHARED REVENUE GRANTS

**RECOMMENDATION:** The Fire Department will apply for \$176,564 in funding from the Gila River Indian Community's (GRIC) State-Shared Revenue Program. If awarded, grant funds will be used to purchase new NFPA 1801 (2013) compliant Thermal Imaging Cameras (TICs) for all front line response units. Staff recommends approval of Resolution No. 4767 authorizing the Fire Chief, as appointed agent for the City of Chandler, to conduct all negotiations and to execute and submit all documents in connection with such grant.

**BACKGROUND:** The Fire Department will apply for a GRIC State-Shared Revenue grant in the amount of \$176,564. Fire Department response units currently carry and utilize TICs on emergency incidents. The current TICs are approaching eight years in service and are reaching the end of their repair lives. Better technology is available. NFPA adopted a new standard in 2013 that addresses image quality, environmental stress, operational format and technological enhancements. The purchase of new NFPA 1801 compliant TICs provide state-of-the-art equipment for all front line fire units, thereby enhancing the Fire Department's ability to assist with search and rescue efforts during emergency situations.

**FINANCIAL IMPLICATIONS:** This grant does not require matching funds.

**PROPOSED MOTION:** Adopt Resolution No. 4767 to authorize the Fire Chief to conduct all negotiations and execute and submit all documents in connection with the Gila River Indian Community's State-Shared Revenue Grant.

Attachments:  
Resolution No. 4767  
Gila River Indian Community Grant Application

RESOLUTION NO. 4767

A RESOLUTION OF THE COUNCIL OF THE CITY OF CHANDLER, ARIZONA, PERTAINING TO THE SUBMISSION OF PROJECTS FOR CONSIDERATION BY THE GILA RIVER INDIAN COMMUNITY'S STATE-SHARED REVENUE PROGRAM.

WHEREAS, the Gila River Indian community is seeking proposals from nearby cities, towns, and counties for projects relating to public safety (police fire, EMS); and

WHEREAS, the City of Chandler, through the Chandler Fire Department, is interested in submitting projects to be considered for funding by the Gila River Indian Community's State-Shared Revenue Program;

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Chandler, Arizona as follows:

1. THAT approval of the submission of projects for consideration by the Gila River Indian Community's State-Shared Revenue Program is granted.
2. THAT Jeff Clark, Fire Chief, is appointed agent for the City of Chandler Fire Department, to conduct all negotiations and to execute and submit all documents and any other necessary or desirable instruments in connection with such grant.

PASSED AND ADOPTED by the City Council of the City of Chandler, Arizona, this \_\_\_\_ day of \_\_\_\_\_, 2014.

ATTEST:

\_\_\_\_\_  
CITY CLERK

\_\_\_\_\_  
MAYOR

CERTIFICATION

I HEREBY CERTIFY that the above and foregoing Resolution No. 4767 was duly passed and adopted by the City Council of the City of Chandler, Arizona, at a regular meeting held on the \_\_\_\_ day of \_\_\_\_\_, 2014, and that a quorum was present at the meeting.

\_\_\_\_\_  
CITY CLERK

APPROVED AS TO FORM:

\_\_\_\_\_  
CITY ATTORNEY





## Gila River Indian Community Grant Application

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### Municipality Information

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Date of Application: June 1, 2014

Name of City, Town or County: City of Chandler

Mayor or Board of Supervisor's Chairman: Mayor Jay Tibshraeny

Mailing Address: P.O. Box 4008, Mail Stop 603

City: Chandler State: AZ Zip Code: 85244-4008

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### Department/Non-Profit Information

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Department or Organization Name: Fire Department

Mailing Address: P.O. Box 4008, Mail Stop 801 City: Chandler State: AZ Zip Code: 85244-4008

Contact Person\*: Tom Carlson Title: Assistant Fire Chief

Phone Number: 480-782-2131 E-mail Address: tom.carlson@chandleraz.gov

\*The individual listed here will be our direct point of contact for grant-related questions or requests for information. Duplicates of all grant correspondence will be sent to the contact person.

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### Grant Information

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Program or Project Name: Thermal Imaging Cameras

Purpose of Grant: To purchase Thermal Imaging Cameras for firefighting search and rescue use.

Beginning and ending dates of Program or Project: 10/1/2014 to 9/30/2015

Amount Requested: 174581 Total Project Cost: 176564

Multi-year Request – If checked, # of years requested: \_\_\_\_\_ Amount/year: \_\_\_\_\_

Priority Funding Area:

Economic Development  Education  Healthcare  Public Safety  Transportation

Geographic Area Served: City of Chandler and surrounding jurisdictions

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Signature:

Mayor OR Chairman BOS: \_\_\_\_\_ Date: \_\_\_\_\_

Typed Name and Title:

# Gila River Indian Community Grant Application

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Chandler Fire Department  
June, 2014

## A. NARRATIVE

### 1. Purpose of Grant

#### a) *Describe the proposed program or project*

The City of Chandler Fire Department (CFD), a neighboring fire department and mutual aid partner of the Gila River Fire Department, is applying for a grant of \$176,564 from the Gila River Indian Community's State-Shared Revenue Program. The grant will be used to purchase 17 thermal imaging cameras (TICs), one for each of the Department's fifteen front line emergency response units and two spares. This equipment will save lives by providing CFD crews with the best available technology to locate and rescue both citizens and firefighters in the event of a devastating fire.

All CFD front line suppression units currently are equipped with TICs; however, these TICs have been in use for almost 8 years and are at the end of their service lives. The technology they use is outdated and does not comply with *NFPA 1801: Standard on Thermal Imagers for the Fire Service*, revised in 2013. *NFPA 1801* specifies design, performance, testing, and certification requirements for TICs used by fire service personnel during emergency operations. CFD will use this grant funding to better protect the lives and safety of firefighters and citizens by replacing aging, outdated equipment with *NFPA 1801* compliant TICs for all front line response vehicles.

#### b) *Describe how the proposed program or project satisfies one or more of the "priority areas" identified by the Gila River Indian Community.*

This purchase supports the "priority area" of Public Safety by supplying critical firefighting equipment for all CFD front line response vehicles. The project will better protect the lives and safety of firefighters and citizens during high risk rescue operations in smoke filled environments.

#### c) *Identify the needs/problems to be addressed, target population and number of people to be served by the project.*

CFD responds to incidents requiring search and rescue efforts every year. These emergencies range from smoke filled fire environments to below grade trench rescues. Thermal imaging cameras (TICs) are critical tools in these situations because they help firefighters locate victims while there is still time for a positive outcome.

Chandler's 243,894 residents face unforeseen emergency situations every day; thus, they are the primary target population for this project. Because Chandler responds to surrounding cities through automatic and mutual aid agreements, the project will benefit residents of other jurisdictions as well.

The project also will provide regional benefits. The City of Chandler plays a role in regional and statewide homeland security efforts as a part of the Phoenix Urban Areas Security Initiative. The City supports a Rapid Response Team (RRT) comprised of both firefighters and police officers trained and equipped to respond to large scale disasters and/or terrorist events. Chandler's RRT automatically responds to regional and statewide disasters alongside RRTs from 10 other Arizona cities. The response includes a vehicle that carries a cache of equipment including a TIC. The TICs requested in this application potentially will benefit fire and law enforcement agencies statewide when the RRT is deployed.

*d) Describe the project goals and objectives, and your plan to meet them.*

The project goals and objectives are as follows:

- To increase the safety of search and rescue activities during structural firefighting operations. It is paramount that the first due engine company have the necessary equipment to conduct a safe and thorough primary search. Technology has advanced to create TICs that are lighter and smaller than the older models currently carried on CFD apparatus. The new TICs will increase firefighter safety by enabling them to search an area more quickly and efficiently, thereby reducing the time they are exposed to an unsafe environment.
- To increase the chances of finding victims in a timely manner so as to realize the best possible success rate for rescue and survival. The accuracy of a TIC is unsurpassed by any other method or technology. The new high resolution cameras allow firefighters to identify the location of fire victims and other heat sources (e.g., animals) while conducting search and fire suppression activities.
- To increase the ability of fire crews to locate and identify electrical fire hazards. Many times, electrical fire hazards cannot be readily identified by exterior observation. A TIC can locate areas that are overheated or arcing within electrical outlets and feeds without creating holes in walls and ceilings to search for these hidden fires.
- To facilitate search and rescue operations at non-fire emergencies. TICs can be used to locate victims that are buried under debris, trapped in confined spaces, or lost in large open areas by identifying body heat.

Each of these goals can be achieved by replacing CFD's aging and outdated thermal imaging cameras with new units that meet the safety standards established in *NFPA 1801*. The end result will be to maximize the productivity of current resources by taking proper

steps to ensure our firefighters' safety and their ability to protect our citizens to the greatest extent possible.

***e) Define the project as a new or continuing program.***

This is a continuing program. The thermal imaging cameras (TIC's) currently used by CFD have been in service for eight years and need to be replaced now. These TICs lack new technology that has become available for this mission critical equipment. The difference between the old equipment and the new TICs can be likened to watching a movie on a 13 inch black and white TV as compared to watching the same show in high definition on a brand new 50 inch digital screen.

Furthermore, CFD's TICs do not comply with *NFPA 1801*, which was revised in 2013. *NFPA 1801* established new standards for image quality, environmental stress, operational format, and technological enhancements. CFD's equipment does not meet these standards and must be replaced as soon as possible to ensure the safety of both our firefighters and the citizens they serve.

***f) Identify other organizations, partners or funders participating in the project and their roles.***

There are no other organizations, partners or funders participating in this project.

***g) Indicate any application to and/or awards made by a Tribe other than the Gila River Indian Community for state shared revenues for this and/or any other projects/programs.***

This application is the only one the Chandler Fire Department is submitting for the upcoming fiscal year. The Department has received four prior awards from the Gila River Indian Community. These awards provided equipment for CFD's air/lighting support vehicle, staffing for the CR288 Crisis Response Unit, funding for Sprinkler's Clubhouse children's safety television show, and a community-wide drowning prevention/CPR project.

***h) Provide a timetable for implementation.***

The project will begin immediately upon receipt of an award and will be completed in four months. During this time, the equipment will be purchased, firefighters will be trained to use it, and one TIC will be deployed on each front line apparatus.

***i) Identify long-term funding resources.***

The City of Chandler will provide all ongoing maintenance and repair costs for the thermal imaging cameras.

**2. Reports**

***Describe your plan to document progress and results. Interim and final reports will be required for every grant awarded.***

The Chandler Fire Department will provide a detailed written progress report every six months. A final report will be submitted upon completion of the project. The final report will also describe the manner in which the Fire Department provides acknowledgement and/or recognition of the Community's contribution.

**B. ATTACHMENTS**

***Please include the following attachments in the order indicated:***

- ✓ 1. A resolution from the applicable governing body in support of the project proposed.
- ✓ 2. A proposed budget for the program or project.
- ✓ 3. A list of other funders, potential funders and amounts committed or requested in support of the proposed project. *(Please see the Grant Application Budget.)*
- 4. Letters of support (optional) that substantiate need for the project and collaboration with other organizations.

***Optional Attachments:***

- ✓ 1. Informational Sheet.

## Gila River Indian Community Grant Application Budget

### Chandler Fire Department June, 2014

#### A. BUDGET PERIOD:

October 1, 2014 through September 30, 2015

#### B. EXPENSES:

Proposed Budget	Amount Requested from GRIC	Amount secured from other Funders	In Kind Expense	Total Budget
<b>Salaries/Wages</b>				
Staff costs to train firefighters to use new thermal imaging cameras	\$0.00	\$0.00	\$1,503.00	\$1,503.00
Staff costs to install TICs in response vehicles	\$0.00	\$0.00	\$480.00	\$480.00
<b>Equipment</b>				
17 thermal imaging cameras, charging units, spare batteries @ \$10,800 per unit	\$161,500.00	\$0.00	\$0.00	\$161,500.00
Sales Tax (8.1%)	\$13,081.00	\$0.00	\$0.00	\$13,081.00
<b>TOTAL BUDGET</b>	<b>\$174,581.00</b>	<b>\$0.00</b>	<b>\$1,983.00</b>	<b>\$176,564.00</b>

#### C. BUDGET DETAILS:

In-kind funding includes the staff time to train firefighters on the proper use of the TIC and the staff time necessary to install them on all front line fire units.

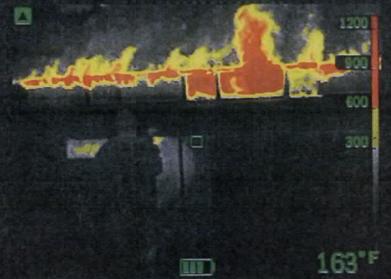
## RECOGNIZE MORE, EASIER THAN EVER

K-Series TICs show you big, bright FLIR images and are simpler to use under challenging conditions. Five imaging options let you shift thermal sensitivity and effective temperature range modes to help speed tactical decisions and the search for survivors. And oversized buttons for gloved-handed operation make them easy to access. Plus you can save up to 200 images for in-camera review later or downloading to create reports back at the station.



### FLIR In-Truck Charger

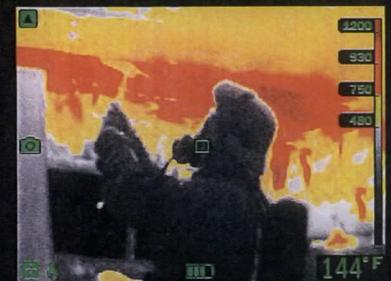
Keep the camera secure and the batteries ready with the optional in-truck charger.



**NFPA firefighting mode**  
For initial fire attack and life rescue.



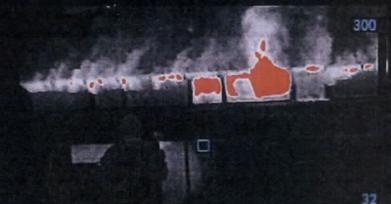
**Black & white firefighting mode**  
Similar to NFPA but in gray scale.



**Fire mode**  
For higher background temperatures.



**SAR mode**  
Sensitivity to lower temperatures for search and rescue.



**Heat detection mode**  
Hottest portion of scene is colorized to help find hotspots faster.