

# **CITY of ALBUQUERQUE**

## **TWENTY THIRD COUNCIL**

**COUNCIL BILL NO. R-18-99 ENACTMENT NO.**

**SPONSORED BY:** Ken Sanchez, by request

1 **RESOLUTION**

2 APPROVING THE ATTACHED GRANT APPLICATION FOR THE FY2019 FIRE  
3 PROTECTION GRANT WITH THE NEW MEXICO STATE FIRE MARSHAL'S  
4 OFFICE AND PROVIDING FOR AN APPROPRIATION TO THE ALBUQUERQUE  
5 FIRE RESCUE IN FISCAL YEAR 2019.

6       **WHEREAS**, the New Mexico State Fire Marshal's Office is distributing funds  
7 to eligible entities; and

8 WHEREAS, the Albuquerque Fire Rescue will use this grant to purchase fire  
9 apparatus equipment to provide better cancer prevention measures and to  
10 help create a successful flash hood exchange program; and

11 WHEREAS, grant funds in the amount of \$89,825 for this purpose are available  
12 to the City of Albuquerque from the FY2019 Fire Protection grant; and  
13 WHEREAS, the City of Albuquerque desires to accept these funds, which  
14 require a \$9,980 cash match and is available in the General Fund.

15 BE IT RESOLVED BY THE COUNCIL, THE GOVERNING BODY OF THE CITY OF  
16 ALBUQUERQUE:

17       Section 1. That the application with the New Mexico State Fire Marshal's  
18      Office for the amount of \$89,825 in State Funds is hereby approved, and its  
19      acceptance and filing with the appropriate official or office is and in all  
20     respects approved.

21       Section 2. That funds in the amount of \$99,805, consisting of \$89,825 in  
22       State monies from the New Mexico State Fire Marshal's Office and a \$9,980  
23       cash match from Transfer to Operating Grants Fund (265) program in the  
24       General Fund (110), are hereby appropriated to the Albuquerque Fire Rescue  
25       in the Operating Grant Fund 265 for Fiscal Year 2019.



**CITY OF ALBUQUERQUE**  
**Albuquerque, New Mexico**  
**Office of the Mayor**

Mayor Timothy M. Keller

**INTER-OFFICE MEMORANDUM**

November 2, 2018

**TO:** Ken Sanchez, President, City Council

**FROM:** Timothy M. Keller, Mayor *K*

**SUBJECT:** APPROVING THE APPLICATION FOR THE FY2019 FIRE PROTECTION GRANT.

The New Mexico State Fire Marshal's Office is distributing funds to eligible entities. The Albuquerque Fire Rescue is applying for grant funds in the amount of \$99,805. A local match totaling \$9,980 is available from the General Fund (110) to support this grant.

This funding will be used to purchase fire apparatus equipment to provide better cancer prevention measures to members and to help create a successful flash hood exchange program.

This resolution is forwarded to the Council for consideration and action.

**Legislation Title: FY2019 FIRE PROTECTION GRANT**

**Recommended:**

Sarita Nair 11/8/18  
Sarita Nair Date  
Chief Administrative Officer

**Approved as to Legal Form:**

Esteban A. Aguilar Jr. 11-6-18  
Esteban A. Aguilar Jr. Date  
City Attorney

AL

**Recommended:**

Paul W. Dow 10/23/18  
Paul W. Dow Date  
Fire Chief

## **Cover Analysis**

### **1. What is it?**

Resolution approving an application for FY2019 Fire Protection Grant with the New Mexico State Fire Marshal's and providing an appropriation for the Albuquerque Fire Rescue.

### **2. What will this piece of legislation do?**

This legislation approves a grant of state funds, which will be used to purchase fire apparatus equipment. This equipment will increase firefighter safety on the fire ground.

### **3. Why is this project needed?**

This funding will be used to purchase fire apparatus equipment to allow Albuquerque Fire Rescue to provide better cancer prevention measures and to help create a successful flash hood exchange program.

### **4. How much will it cost and what is the funding source?**

The FY2019 Fire Protection Grant is for \$99,805 and requires a cash match of \$9,980, which is available in the General Fund (110).

### **5. Is there a revenue source associated with this contract? If so, what level of income is projected?**

\$89,825 in State Funds.

## FISCAL IMPACT ANALYSIS

**TITLE:**

FY2019 Fire Protection  
Grant

Legislation Type Resolution

FUND: Fund 265 Operating Grants Fund

Fire Department

- No measurable fiscal impact is anticipated, i.e., no impact on fund balance over and above existing appropriations.
- (If Applicable) The estimated fiscal impact (defined as impact over and above existing appropriations) of this legislation is as follows:

	2019	Fiscal Years 2020	2021	Total
Base Salary/Wages				-
Fringe Benefits at (use applicable rate from OMB)				-
Subtotal Personnel	-	-	-	-
Operating Expenses	99,805			99,805
Property				-
Indirect Costs	4.20%			-
Total Expenses	\$ 99,805	\$ -	\$ -	\$ 99,805
<input type="checkbox"/> Estimated revenues not affected				
<input type="checkbox"/> Estimated revenue impact				
Amount of Grant	89,825			89,825
City Cash Match	9,980			9,980
City In-kind Match				
City IDOH				
Total Revenue	\$ 99,805	\$ -	\$ -	\$ 99,805

Number of Positions created 0

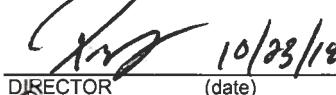
**COMMENTS:** This funding will be used to purchase fire apparatus equipment to provide better cancer prevention measures to members and to help create a successful flash hood exchange program.

**COMMENTS ON NON-MONETARY IMPACTS TO COMMUNITY/CITY GOVERNMENT:**  
(Enter all other comments)

PREPARED BY:

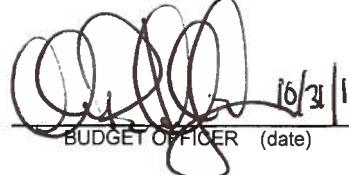
  
FISCAL ANALYST

APPROVED:

 10/23/18  
DIRECTOR (date)

REVIEWED BY:

  
EXECUTIVE BUDGET ANALYST

 10/23/18  
BUDGET OFFICER (date)

  
CITY ECONOMIST

**APPLICATION FOR FY19 FIRE PROTECTION GRANT**  
Applications will be accepted from July 20, 2018 to September 20, 2018

**Eligibility**

All fire departments currently certified and funded by the New Mexico State Fire Marshal's Office are eligible to participate in the fire protection grant process.

**Only one grant application per department may be submitted.**

**Note:** Any fire department that is awarded a grant and consequently loses its qualification to participate in the Fire Protection Funding process shall return the apparatus and/or equipment to the State Fire Marshal for redistribution as per 59A-53 NMSA 1978 and Title 10 Chapter 25 Part 10 of the NMAC.

**Maximum Award and Matching Funds**

The maximum amount awarded to a single applicant will not exceed \$100,000.00 with a **minimum matching funds commitment from the department of 10%**. Costs exceeding the grant amount shall be the responsibility of the local government. State fire funds may be used for this purpose with proper approval from the New Mexico State Fire Marshal's Office.

**Signatures/Commitment of Funds**

The fire chief and the fiscal agent for the local government shall sign the application. In addition, the fiscal agent shall sign the Fiscal Agent Commitment Statement indicating a commitment of these funds for the awarded project and a commitment of the 10% matching funds. Applications submitted without both signatures will not be considered.

**MINIMUM REQUIREMENTS**

**NFIRS Reporting**

All applicants shall be in compliance with the reporting requirements of the New Mexico State Fire Marshal's Office utilizing the National Fire Incident Reporting System (NFIRS) as per 59A-52 NMSA 1978 and Title 10 Chapter 25 Part 10 of the NMAC. Applicants with delinquent NFIRS reports for the period of July 2015 to June 2016 at the time the application period closes will not be considered.

**Pump Testing**

All rated fire pumps shall undergo annual pump tests to ensure proper function and firefighter safety; therefore, the New Mexico Fire Protection Grant Council is requiring apparatus pump tests be conducted on each apparatus with rated fire pumps and documented in a Pump Test Data Log and verified by a signed and notarized affidavit.

- All annual pump tests shall be in accordance with NFPA 1901 and the Insurance Service Office (ISO) requirements.
- A Pump Test Data Log (attached) must be completed and uploaded with the application. The electronic Excel Spreadsheet is available on the Grant website.
- An Affidavit of Completed Annual Pump Tests (attached) signed by the Fire Chief and notarized verifying that three years of pump test records exist for each apparatus with a rated fire pump and are on file with the department must be uploaded with the application. A pdf file of the Affidavit is available on the Grant website.

**ADDITIONAL INFORMATION**

All of the information contained in the application is carefully reviewed and considered. In addition to general information and data provided, thorough and clear narrative responses are critical to helping reviewers understand the needs of the department relative to the request.

The department may request funding for apparatus, PPE, communication equipment or another justified critical need. All apparatus must meet NFPA Standards. Equipment/apparatus specifications are subject to review by the Fire Marshal's Office. The department must have the capability to immediately house apparatus properly. NFPA listed equipment may be included with the purchase of apparatus.

**SELECTION CRITERIA**

Applications will be placed in consideration categories meeting specific criteria as follows:

**Category A**

- 1) NFIRS Compliant. NFIRS Compliant (per 59A-52 NMSA 1978 and Title 10 Chapter 25 Part 10 of the NMAC. Each certified fire department shall complete the reporting requirement by the 10<sup>th</sup> day of each month following the month for which the report is prepared. (e.g., the report of January is due by February 10<sup>th</sup>).
- 2) Pump Test compliant (in accordance with NFPA 1901 and ISO requirements).
- 3) Request is for a Critical Need (clearly explained in the application)
- 4) Never before received a NM Fire Protection Grant

**Category B**

- 1) NFIRS Compliant. NFIRS Compliant (per 59A-52 NMSA 1978 and Title 10 Chapter 25 Part 10 of the NMAC. Each certified fire department shall complete the reporting requirement by the 10<sup>th</sup> day of each month following the month for which the report is prepared. (e.g., the report of January is due by February 10<sup>th</sup>).
- 2) Pump Test compliant (in accordance with NFPA 1901 and ISO requirements).
- 3) Request is for a Critical Need (clearly explained in the application)
- 4) Previous NM Fire Protection Grant recipient

Department Name: Albuquerque Fire Department County: Bernalillo ISO Rating: 1

**Category C**

- 1) NFIRS Compliant (per 59A-52 NMSA 1978 and Title 10 Chapter 25 Part 10 of the NMAC. Each certified fire department shall complete the reporting requirement by the 10<sup>th</sup> day of each month following the month for which the report is prepared. (e.g., the report of January is due by February 10<sup>th</sup>)
- 2) Pump Test compliant (in accordance with NFPA 1901 and ISO requirements).
- 3) Request is not a Critical need
- 4) Previous recipient

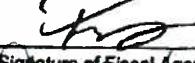
**Category D**

- 1) Non-compliant (will not be considered for a grant)

**CRITICAL NEEDS**

- Fire apparatus/equipment
- PPE (structural, wildland, SCBA)
- Communications
- Maintenance, training, water
- Need that will clearly will have significant impact on ISO Classification

**ACKNOWLEDGEMENT SIGNATURES**

Name of Department/District: <u>Albuquerque Fire Department</u>	County: <u>Bernalillo</u>	
Name of Fire Chief (please print) <u>Paul Dow</u>	<u>Signature of Fire Chief</u> 	Date <u>9/19/18</u>
Name/Title of County/Municipal Fiscal Agent (please print) <u>Amanda Vigil, Fiscal Manager</u>	<u>Signature of Fiscal Agent</u> 	Date <u>9/19/18</u>
Mailed, Emailed, or Faxed applications <u>will not</u> be accepted.		

This application may be downloaded from the following website: <http://www.nmprc.state.nm.us/sfm.htm>

**Please answer all questions in this application.  
Incomplete applications will not be considered.**

GENERAL INFORMATION	
Fire Department ID Number (using NFIRS identifier)	01007
Fire Department Name	Albuquerque Fire Department
Insurance Services Office (ISO) Rating	1
County	Bernalillo
	City/Municipality
What kind of organization is your fire department?	Career
How many stations are in your organization?	
Main	17
Substations	7
Admin	1
Type of community your organization serves Based on population density	Urban
Mailing Address	
Address	11500 Sunset Gardens Rd. SW
City	Albuquerque
State	New Mexico
Zip Code	87121
Phone number	(505) 768-9322
Email address	pdow@cabq.gov
Name of Person Completing this application?	Emily Jaramillo
Are you a fire department member?	Yes
How many career fire fighters do you have?	696
How many volunteer firefighters do you have?	0
If combined, how many uniformed full-time career fire fighters are at the station at all times?	0
How many are FF-I Certified?	696
How many are FF-II Certified?	696
Do your newly recruited Fire Fighters undergo an entry-level physical and receive immunizations? Describe	Entry level physicals are required for all new recruits based off NFPA 1582. These physicals include drug screening, hearing and eye test, blood labs, EKG, and lung capacity tests including a chest x-ray. All recruits also receive a physician consu
BUDGET INFORMATION	
What is your fire departments operating budget, including personnel costs, for your current fiscal year?(in dollars)	\$85,707,000.00
What is the current Protection Fire Fund distribution?	\$1,700,898.00
What is the approved total carryover balance, if any, of Protection Fire Funds maintained by the department?	\$603,762.00
What was the purpose of the approval carryover?	Operating Costs And Encumbrances From Fiscal Year 2018
What percentage of your annual operating budget is derived from:	
Taxes?	96%
Grants?	0%
State Fire Marshal Funds?	3%
Donations?	0%
Fund Drives?	0%
Fee For Service?	1%

Department Name: Albuquerque Fire Department County: Bernalillo ISO Rating: 1

Others?	0%
Please Explain (For 'Others')	0

#### COMMUNITY INFORMATION

Name of Community Protected? <b>City of Albuquerque</b>	Number of commercial buildings protected in fire district? <b>0</b>
Number of homes protected in fire district? <b>0</b>	What is the permanent resident population of the community you serve? <b>0</b>

Do you have formal automatic aid or mutual aid agreements?:

Yes

List adjacent automatic aid fire districts (with written agreements)

S.No	Automatic Aide Fire Districts
1	Bernalillo County Fire Rescue

#### RESPONSE HISTORY IN THE LAST YEAR

What is your call volume for the past year? (from last year July 1st to this year June 30th)	106908			
How many responses per category?				
Structure Fire (IT 110-118, 120-123) 436	Hazardous Condition (IT 400-482) 939	Vehicle Fire (IT 130-138) 246	Service Calls (IT 500-571) 1391	Vegetation Fire (IT 140-143) 172
Good Intent Calls (IT 600-671) 13660	EMS (IT 300-323) 60834	False Calls (700-751) 3335	Rescue (IT 331-381) 319	Other 25576
Call Volume/History Support request?				

#### WATER AVAILABILITY

Community hydrant system ? Yes	Total capacity of available water storage(in gallons) <b>30,000,000.00</b>	Water storage tank with fire hydrant @ station No
Describe additional water source(s):		
S.No	Source	Capacity(in gallons)
1	-	-

#### TRAINING

Average # of training hours per Firefighter per year : **291**

How many training opportunities has this department offered in the last calendar year?

Training Details	Supporting Document
89th Cadet Class	89th Cadet Class Syllabus(Instructor version) 20 Week (Official).doc
LT Certification	Lt cert july 2017 syllabus.pdf
Driver Certification	Driver Certification Course Instructor Syllabus (template).doc
Captain Certification	AFD Captain Syllabus Jan 2016 syllabus.doc
Commander Certification	AFD Commander Certification syllabus 2017.doc
Fire Instructor I	Fire Instructor I 10_23_17.pdf
Fire Officer I	Fire Officer I 11_27_17.pdf
Fire Officer II	Fire Officer II 07_17_17.pdf
Fire Officer III	Fire Officer III 4_17_17.pdf

**APPARATUS****List class A pumper(s)****Are pump test conducted annually on apparatus?****Yes****Total number of seated positions :****88****Copies of most recent pump tests records must be attached (upto 3 years)****Explain If not tested properly:****Pumps tested annually****COMMUNICATION EQUIPMENT****Do you have any of the following?**

Handheld radios	262
Base Stations	32
Mobile radios	164
Do you have any apparatus without a mobile radio?	No

**List communication equipment by type**

Describe your communication equipment and capability (type, qty, range) (if more than zero)	How Many?
-	-

**Do you have interoperability with any of the following agencies?**

Law Enforcement	Yes
Emergency Medical	Yes
Other Fire Departments	Yes
Other (that could not be classified as above)	No
Describe (if 'yes' on others)	
Do you have any areas in your jurisdiction which are NOT covered by a repeater?	No
Describe (if yes for above)	

**HAZARDS/THREATS****Describe the threat to the community: (i.e., fuel storage bulk plants, railroads, high hazard occupancies, etc.)**

Hazard Type	Hazard Detail
General Hazards	Structural fire, wildland/urban interface, EMS, hazmat, heavy technical rescue, swiftwater response, misc. hazardous situations, and response to two interstation highways
Critical Infrastructure	Two major interstate highways cross through the middle of the city, and a major railway serves as a primary commercial and public transportation artery in north-south directions. Radioactive waste continues to be transported along the interstate roadways to the WIPP storage site in southeastern New Mexico.
Population Density	Albuquerque is the largest city in the state, with a 2017 estimated population of 558,545. While the city has not experienced a growth in population over the past year, the metro area population is still more than 900,000. The city is considered both a destination city and a convention city, hosting hundreds of conventions each year as well as the NM State Fair, The Gathering of Nations, and the International Balloon Fiesta, each of which draws additional thousands of visitors to the city sometimes for weeks at a time.
High Hazard Occupancies	Sandia National Laboratories is located at the southeastern edge of the city, along with Kirtland Air Force Base. The Sunport, New Mexico's largest international commercial airport, serves more than six million travelers per year. A large petroleum storage tank facility in the city's south valley area, is obvious from the air since it lies directly below the busiest (west-east) flight path. There are also numerous chemical and hazardous materials plants located within the city, as well as two small nuclear reactor sites. The San Juan/Chama water project, which provides drinking water for the entire Albuquerque metro area, is located here as well.
	Albuquerque is the center of the New Mexico Technology Corridor with a concentration of high-techprivate companies and government institutions along the Rio Grande. The city is home to a number of contracting companies, Sandia National Laboratories.

Cultural and Academic Institutions	and Kirtland Air Force Base. It is also home to University of New Mexico, National American University, Trinity Southwest University, and the Central New Mexico Community College - together attending to the educational needs of 60,000 students. Albuquerque is also home to a number of museums, galleries, and other points of cultural interest. Some of these include the National Hispanic Cultural Center, Albuquerque Biological Park, Museum of Natural History and Science, and Old Town Albuquerque. The Sandia and Manzano mountains to the east offer trails, open spaces, rock climbing, and a number of other outdoor activities along with the city's many parks - each drawing thousands of visitors with the associated potential for emergency response needs.
Potential for Terrorism	Since Albuquerque is the largest city north of the US/Mexico border, the FBI has long considered the area to be one of the top targets for potential terrorist activity in the southwest. According to the State of New Mexico's Department of Homeland Security, the Joint Terrorism Task Force, and the FBI's anti-terrorism program have identified - and continue to track - defined terror-related activity within the state. They are additionally aware of narco-cartel, political extremist, and criminal gang connections within the state and the Albuquerque area.

**CURRENT PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Are all PPE inspected annually per NFPA 1851?  
Yes

**1981 STANDARD COMPLIANT PPE**

Qty	Age (years)	Condition
-----	-------------	-----------

**1997 STANDARD COMPLIANT PPE**

Qty	Age (years)	Condition
-----	-------------	-----------

**2002 STANDARD COMPLIANT PPE**

Qty	Age (years)	Condition
-----	-------------	-----------

**2007 STANDARD COMPLIANT PPE**

Qty	Age (years)	Condition
464	10	Fair
186	7	Good
406	6	Good

Do you have your bottle filling capability? :

Yes

Do you have SCBA cylinder filling capability? :

Yes

Describe SCBA cylinder filling capability :

AFR possesses three static filling stations: Training Academy, Fire Station 13, and Fire Station 17. AFR has two mobile filling units: Air Supply Truck and towable trailer mounted unit. AFR also has capability on two Hazmat apparatus.

Pressure :  
High

**1981 STANDARD COMPLIANT SCBA**

Qty	Age (years)	Condition
-----	-------------	-----------

**1997 STANDARD COMPLIANT SCBA**

Qty	Age (years)	Condition
-----	-------------	-----------

**2002 STANDARD COMPLIANT SCBA**

Qty	Age (years)	Condition
-----	-------------	-----------

**2007 STANDARD COMPLIANT SCBA**

Qty	Age (years)	Condition
227	8	Good
50	14	Fair

**EQUIPMENT NEEDS**

List in **priority order**, and explain the equipment needs of your department and the total costs of fulfilling the needs.

Priority Order #	Priority Category Requesting From	Equipment Needed	Quantity	Total Cost of Equipment(\$)
1	PPE	Structural	800	\$58,480.00
2	PPE	Structural	145	\$41,325.00
				Total: \$99,805.00

What (specifically) will you purchase if awarded this grant?:

If funded, AFR will purchase 800 PGI Cobra Barriaire Gold complete particulate hoods and 145 Cairns 1044 helmets. The narrative will cover more details into why AFR is making this request.

Will fulfilling this need impact your organization's ISO rating?:

Yes

Please explain:

Fulfilling this need will impact the life safety of our firefighters. AFR has had 5 members over the past few years contract some form of cancer. We are taking steps to increase the safety of our personnel and have recognized the flash hood as one of the important components in cancer prevention. Further information related to this is detailed in the narrative. This request will not negatively or positively impact our ISO rating.

#### GRANT FUNDING JUSTIFICATION

**Financial Need:** Give us a financial snapshot of your area. Tell us why you need assistance and describe your department/organization's current funding issues.

The Albuquerque Fire Rescue provides an all-hazards response to the City of Albuquerque and the surrounding area, with the primary response elements being fire and rescue. As a paid professional department, our operations are municipally funded. Over 90% of the department's budget is appropriated to personnel salary and benefits, leaving the balance for routine operational needs. AFR's budget has remained stagnant for the last ten years. The money used for professional services, supplies, and equipment has remained around \$2 million a year since the early 1990's. This has not adjusted with the growth of the department.

AFR is experiencing unprecedented budget shortfalls in Fiscal Year 2019. AFR has 52 firefighter vacancies resulting in rising overtime costs to prevent "brownouts." Our call volume has risen 40% since 2012 which has caused an increase in apparatus use, maintenance, and repair costs. The demands of AFR have grown without correlating growth in our infrastructure. In the first few months of 2018, AFR conducted an internal audit and discovered that we needed to replace \$1.7 million in personal protective equipment. We are only budgeted to replace 5% of this equipment. AFR is also facing the need to replace \$8.5 million in apparatus, with a budgeted amount of \$1.6 million. Our awareness to cancer prevention measures has grown but unfortunately, we don't have the financial resources to put these measures in place for our personnel.

**Request:** Provide a brief description of what the request does, how the dollars will be, spent and explain the need.

Every year, research is published connecting firefighting and cancer. Albuquerque Fire Rescue is committed to the cancer prevention of our firefighters, but because of budget constraints it makes it difficult for us to purchase equipment that will help with our mission of cancer prevention. Budget constraints also make it difficult to purchase basic PPE that is expired per the NFPA 1851 standard.

If awarded, AFR will use the grant funding to purchase 800 PGI Cobra Barriaire Gold complete particulate hoods and 145 Cairns 1044 helmets. These hoods will provide better cancer prevention measures to members and help create a successful flash hood exchange program. Each member will be issued a new flash hood and the remainder will go on our Squad units for the exchange program. After each fire, a firefighter can turn in a soiled flash hood and receive a clean one. An officer will then deliver the box of soiled flash hoods to AFR Logistics to be washed and then placed back on the Squad for the next incident. The funding will address the need to replace 145 of the expired helmets. Both of these requests are detailed further in the next section.

**Problem:** Provide a brief description of the problem your department/district is addressing with this grant application.

There are two main problems that Albuquerque Fire Rescue is addressing this grant request, cancer prevention and expired PPE.

Over the past five years, eight members of AFR have contracted some form of cancer including two members with colon cancer, pancreatic cancer, two members with brain cancer, skin cancer, esophageal cancer, and testicular cancer. Nationally, best practices for cancer prevention were released along with initial studies showing the linkage of firefighting and cancer. According to statistics published by the Firefighter Cancer Support Network, a firefighter has a 9% greater risk of being diagnosed with cancer. For example, a firefighter has a 2.02 times greater risk of contracting testicular cancer, 2.0 times greater risk of contracting mesothelioma, 1.3 times greater risk of contracting brain cancer to name a few. The IAFF has attributed more than 60% of its firefighter LODD to cancer, which makes that more than any other cause.

AFR is the busiest department in the state of New Mexico, running just under 107,000 calls for service in 2017. We are currently understaffed by 52, making our firefighters some of the busiest in the country when you break down calls per firefighter. Because of this increase in call volume, it is paramount that our firefighters have adequate protective gear to protect them from the byproducts of fire. It is well-known in the fire service that the fuels that burn in modern day fires are more hazardous than those that burned in the past. Firefighters are exposed to more synthetic materials and plastics, in addition to asbestos and other hazardous materials.

As a result of the increasing research being published about cancer prevention in the fire service, AFR has taken several steps to increase the safety of personnel. Two years ago, the AFR Safety Committee recommended a flash hood exchange program. The flash hoods that were being purchased by the administration at the time are a single layer and do not filter particulates. The Safety Committee recommended a double layer flash hood that provided firefighters with some level of particulate filtration due to research that shows the face, jaw and neck are an area of the body that is the most permeable to the deposits of carcinogenic particulates on the skin. Along with the permeability in that area, for every 5 degree increase in body temperature, the skin becomes 400% more permeable. Unfortunately, due to budget constraints, AFR has not been able to purchase the double layer, particulate filtering flash hoods.

If funded, the grant award will go to fund the purchase of 800 COBRA BarriAire flash hoods. These hoods offer more protection from harmful particles and contaminants in the areas that pose the greatest risk of exposure around the face, jaw and neck. BarriAire hoods combine an outer layer of PGI proprietary gold FR fabric and an inner layer of ultra-lightweight Nomex, which can inhibit penetration of many small size harmful particles. It is difficult to fully clean flash hoods and the double layer ensures that there is always a clean layer resting against the skin.

The second problem addressed with this grant request is the expired PPE that AFR discovered in our 2018 bunker gear audit. AFR's new

administration discovered that there was no plan to replace aging bunker gear. The internal audit conducted with the help of Honeywell, determined that there are 744 sets of gear that are either expired or will expire by the end of FY19. There are 269 helmets that are also expired per the NFPA 1851 standard. AFR has since implemented a plan to replace the expired bunker gear and helmets, as well as to plan cycles of replacement over the next decade in order to not create a similar issue 10 years from now. If funded, part of the grant award will go to help replace the expired helmets with the purchase of 145 Cairns 1044 helmets.

**Analysis of Benefits:** Provide a brief description of how the department/district this performance will be improved and how this compares to the proposed expenditure.

The need to outfit firefighters with proper PPE is outlined in NFPA 1851 and is commonly accepted throughout the fire service. With each set costing over \$3000, the replacement of bunker gear and PPE can significantly impact the budget of any department. As a result of the internal bunker gear audit, Albuquerque Fire Rescue has created a multi-faceted plan to not only replace the aging and expired gear, but also work towards providing a more appropriate level of protection to our firefighters.

Knowing the cancer risks our firefighters face at one of the routine structure or car fires they respond to, AFR believes providing this more appropriate PPE will help combat the cancer risk. The flash hoods that we are requesting will help prevent particulate from depositing on the face and neck of a firefighter. Several years ago, the New Mexico legislature adopted presumptive causation legislation and as a result there are over ten forms of cancer that are covered by employers as being related to an employee's work as a firefighter. The purchase of better protecting PPE will benefit the community by helping save tax payer money that would go towards workers comp claims for occupational cancers. There is also lost time in the form of sick leave and FMLA that not only affects the firefighter suffering from cancer and their family, but also affects the operational needs and budget of the department due to covering shifts with overtime.

There is clearly a higher cost associated with provided flash hoods with a particulate filter to our firefighters; however, with the increase in our members that have contracted cancer over the past five years we believe that this cost is justified to tackle the epidemic of cancer that our department is facing. This improvement will help save our department and the City of Albuquerque money over time.

AFR is also committed to establishing a bunker gear replacement plan. Once the expired PPE is addressed over the next few years, a replacement plan will be put in place over the next decade so that future administrations do not have the same issues that we are facing in 2018.

**Community and Your Organization's Relationship:** Provide a description of your department/organization's role and relationship within the community and what impact this request will have.

The Albuquerque Fire Rescue is primarily funded by the City of Albuquerque, and is the sole provider of fire, EMS, and other emergency services. AFR also provides community outreach, fire prevention, and created a preventative community paramedic program in 2018. Any improvements in the department's operation profile will affect the community at large. The successful funding of this grant will enhance the safety and health of Albuquerque firefighters. The impact of this grant could potentially affect not only our firefighters, but also their families and the community they serve by outfitting them with proper protective gear. This will protect firefighters from immediate hazards faced in a fire as well the potential exposures to cancer causing carcinogens.

The City's Administration is aware of, and in support of, AFR's submission of this grant request. They are further aware of the requisite 10% match in funds required by this grant.

**Consequences:** Provide a brief description of consequences of not funding this grant request. If your department does not receive the requested grant, what will the department do?

As stated previously, AFR is facing significant budget shortfalls in FY2019. This is coupled with the over 700 sets of expired turnout gear. The consequences of not funding this grant could potentially impact other services that AFR provides, may delay the maintenance of fire stations or apparatus, or impact other areas of the department as money is appropriated to replace the expired PPE. The purchase of the particulate filtering flash hoods also has a clear impact on the health and safety of our firefighters.

In the event the grant is not funded AFR is committed to the health and safety of our firefighters and will continue to seek out alternative funding sources to purchase the needed PPE. AFR believes that cancer prevention not only impacts the lives of our firefighters and their families, but also our organization and community as a whole.

#### PROJECT BUDGET SHEET

Priority Order #	Priority Category Requesting From	Equipment Needed	Quantity	Total Cost of Equipment(\$)
1	PPE	Structural	800	\$58,480.00
2	PPE	Structural	145	\$41,325.00
				Total: \$99,805.00

Total amount	\$99,805.00
Less matching amount (minimum 10% of the Total amount)	\$9,980.50
SubTotal	\$89,824.50
Grant amount requested (maximum request \$100,000.00)	\$89,824.50
Department is responsible for the amount in excess of \$100,000.00	\$0.00
Total amount the Department is responsible for	\$9,980.50

Department Name: Albuquerque Fire Department County: Bernalillo ISO Rating: 1

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Total: <u>\$99,805.00</u>				

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Grant amount requested (maximum request \$100,000.00)	\$89,824.50
Department is responsible for the amount in excess of \$100,000.00	\$0.00
Total amount the Department is responsible for	\$9,980.50

#### FISCAL AGENT COMMITMENT STATEMENT

I, as fiscal agent for the Albuquerque Fire department, certify that a minimum of 10% in matching funds are committed to the project for which this application is submitted.

Name of County/Municipal Fiscal Agent (please print)

Amanda Vigni

Title

Signature of County/Municipal Fiscal Agent

Amanda Vigni

9/19/18

Date

**Revision to the application rules for Pump Testing validation.**

All rated fire pumps shall undergo annual pump tests to ensure proper function and firefighter safety; therefore, the New Mexico Fire Protection Grant Council is requiring apparatus pump tests be conducted on each apparatus with rated fire pumps with the apparatus pump test form and affidavit completed or the actual pump test records submitted with the application. All annual pump tests shall be in accordance with NFPA 1901 and the Insurance Service Office (ISO) requirements. The Pump Test Data Log may be used in lieu of the actual pump records but the affidavit must be signed, notarized and accompany the application.

## **Affidavit of Completed Annual Pump Tests**

I, the undersigned Fire Chief of the ALBUQUERQUE Fire Department, hereby confirm that I have read the foregoing pump test requirements and the pump tests have been completed in accordance with NFPA 1901 and the Insurance Service Office (ISO) requirements. The information attested to, by the Fire Chief, is true and complete and assume the obligation for my qualifications to the New Mexico Fire Protection Grant Council.

Fire Chief Signature: 

Fire Chief Printed Name: Paul W. Dow

Date: 9/18/2018

**NOTARY**

**(Signature and seal must be clear and legible)**

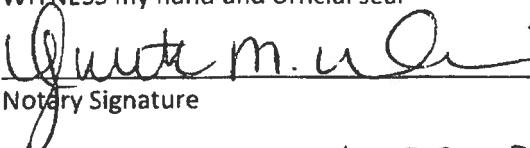
County of Bernalillo

State of NEW MEXICO

Subscribed and sworn to before me this 19<sup>th</sup> day of September, 2018 by  
Paul W. Dow

having proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to within this instrument and acknowledged to me that he/she executed the same in his/her authorized capacity.

WITNESS my hand and official seal

  
Notary Signature

My Commission Expires: 1-30-21

