

E. Adoption of Resolution No. 2024-003 Approving the Submittal of a Grant Application to the 100 Club of Arizona in the Amount of \$16,944.90, for the Purchase of 300 Innotex Particulate-Blocking Hoods



**Northwest Fire District
Governing Board**
13535 North Marana Main Street
Marana, Arizona

SCHEDULED

MEMORANDUM NO. 24-0704

Date:	February 27, 2024
To:	Governing Board
From:	Sandy Russell, Analyst
Division:	Finance Services
Type of Action:	Formal Action/Motion
Strategic Plan Goals:	Create greater financial efficiencies and ensure financial sustainability and responsibility
Agenda Item:	Adoption of Resolution No. 2024-003 Approving the Submittal of a Grant Application to the 100 Club of Arizona in the Amount of \$16,944.90 for the Purchase of 300 Innotex Particulate-Blocking Hoods

RECOMMENDATION:

Staff recommends approval of Resolution No. 2024-003 to submit a grant application to the 100 Club of Arizona in the amount of \$16,944.90 for the purchase 300 Innotex particulate-blocking hoods.

MOTION:

Move to adopt Resolution No. 2024-003 approving the submittal of a grant application to the 100 Club of Arizona in the amount of \$16,944.90, for the purchase of 300 Innotex particulate-blocking hoods.

DISCUSSION:

The District's current inventory of hoods is approaching end of life and is inferior to the advanced material and construction of hoods available today. The Equipment Work Group, in coordination with our partnering agency Golder Ranch Fire District, identified and tested particulate-blocking hoods that will comply with the updated requirements of the National Fire Protection Association (NFPA).

During structure fires, hoods are swapped out frequently to reduce contaminate exposure and heat stress. During auto-aid call responses, the fire district that provides the Air/Light Support Truck will exchange contaminated hoods with fresh hoods to firefighters in both fire districts. The hood exchange program adds a layer of efficiency to the goal of firefighter safety. The particulate-blocking hoods will reduce health risks to our firefighters and reduce heat stress during fire suppression. This will enable the firefighters to safely respond to structure fires and remain as long as necessary to extinguish the risk to the community.

ALTERNATIVES:

None recommended.

Fiscal Impact

FISCAL YEAR: 23/24

BUDGETED Y/N: No

AMOUNT REQUESTED: \$16,944.90

FISCAL IMPACT: The total cost of this project is \$33,889.80. Northwest Fire District (NWFD) is requesting Enhancement Stipend Funds for 50% of the total project cost, for a total of \$16,944.90. If awarded, the match obligation will be paid with fund balance from the Grant Fund.

Attachments

Resolution No. 2024-003
100 Club of Arizona Safety Enhancement Stipend Application
Curtis Quote

RESOLUTION NO. 2024-003

A RESOLUTION OF THE GOVERNING BOARD OF THE NORTHWEST FIRE DISTRICT ("DISTRICT") APPROVING AND AUTHORIZING SUBMITTAL OF AN APPLICATION TO THE 100 CLUB OF ARIZONA FOR GRANT FUNDING TO PURCHASE INNOTEX PARTICULATE-BLOCKING HOODS.

WHEREAS, the 100 Club of Arizona is a non-profit organization which provides support to Arizona's public safety agencies and first responders; and

WHEREAS, the 100 Club Safety Enhancement Stipend Program ["Grant Program"] provides financial assistance to public safety agencies for acquisition of equipment to enhance the safety of first responders; and

WHEREAS, the staff of the District wishes to submit an application (the "Application") for funding to acquire three hundred Innotex particulate-blocking hoods for the safety and support of the District's operations personnel; and

WHEREAS, the Governing Board of the District finds that submitting the Application is in the best interests of the District and its residents.

NOW, THEREFORE, BE IT RESOLVED by the Governing Board of the Northwest Fire District that the Governing Board hereby approves submittal of the Application, and authorizes its officers to sign it; and

BE IT FURTHER RESOLVED that the Fire Chief, Norman Bradley, III, is appointed as the District's agent and is hereby authorized to take all steps necessary to submit the Application and to execute any necessary documents on behalf of the District, and to administer the grant in accordance with the Grant Program.

PASSED AND ADOPTED by the Governing Board of the Northwest Fire District, this 27th day of February, 2024.

George Carter

ATTEST:

APPROVED AS TO FORM:

Peg Green
Clerk of the Board

Thomas Benavidez
District Attorney

From: [100 Club](#)
To: [Sandy Russell](#)
Subject: External Email: Your Application
Date: Tuesday, February 6, 2024 9:17:32 AM

Your application has been saved successfully, and the tracking number is 25469. For your records, here is a copy of the contents of your application:

Safety Enhancement Stipend Application

Thank you! Your application has been saved. You should receive an e-mail confirmation shortly.

Safety Enhancement Stipend Application

DISCLAIMER: The 100 Club of Arizona is a 501c3 non-profit organization that will utilize contact information and email addresses provided for on-going communication with you and your agency or department.

DEPARTMENT INFORMATION

Department/Agency Requesting Stipend

NW Fire

Confirm Department/Agency Tax ID

Northwest Fire District

86-0472471

Please upload a copy of your current signed department W-9:

[Northwest Fire District W9.pdf](#)

Number of sworn/certified personnel in your agency

226

Number of

volunteer

personnel in your

agency

0

Number of residents in your service area

135865

Estimated number of annual

incidents

18983

In relation to the estimation of incidents above, please estimate how many of those incidents fall into the category of:

Structural Fire Calls

132

Wildland Fire Calls

96

EMS Calls

9240

EQUIPMENT INFORMATION

Total amount of funds being requested:

16994.90

Specific need you are requesting stipend for:

300 Innotex 25 Gray Particulate-Blocking Hoods

Are the items requested replacing existing equipment?

Yes

If yes, is the current equipment defective or expired?

Expired

Are the items requested new equipment for the department/agency?

No

If yes, have your members been trained to use the equipment requested?

Reason such item(s) cannot be provided for in your normal operating budget

The total cost of this project is \$33,889.80. Northwest Fire District (NWFD) is requesting 50% of the total project cost, \$16,944.90, in this 100 Club of Arizona Safety Enhancement Stipend Application. Our equipment committee in coordination with our partnering agency, (Golder Ranch Fire District), did not come to an agreement regarding the type of hood that would be purchased and provided during the hood exchange program until after our budget was finalized. We have identified capacity within our operating lines to fund 50% of the cost of particulate blocking hoods this year. Northwest Fire District values our relationships with our partnering agencies and does not want to delay implementation of this program, but we are unable to identify additional capacity to cover the entire cost of the hoods in the current fiscal year.

Are there any other sources of funding that were considered and why could they not be used?

The District submitted a grant application for the entire cost of the project; we did not receive that award. The District then examined capacity within budget lines to fund the entire project, but we could not reallocate large amounts of budget at this stage of our fiscal year.

Studies undertaken by your department or others that would indicate that such item(s) would enhance the personal safety of officers/firefighters

Northwest Fire District is seeking to replace personal protective equipment (PPE) protective hoods with new particulate-blocking hoods. The current inventory of hoods is approaching end of life utility and is inferior to the advanced material and construction of hoods available today. In collaboration with Golder Ranch Fire District (GRFD), we identified and tested particulate-blocking hoods that will comply with updated National Fire Protection Association (NFPA) code revisions required next year. During structure fires, hoods are swapped out frequently to reduce contaminate exposure and heat stress. During auto-aid call responses, the District that provides the air/light support truck will exchange contaminated hoods with fresh hoods to firefighters in both Districts. The hood exchange program adds a layer of efficiency to the goal of firefighter safety. The particulate-blocking hoods will reduce health risks to our firefighters and reduce heat stress during fire suppression. This will enable the

firefighters to safely respond to structure fires and remain as long as necessary to extinguish the risk to the community. A 2010 study completed by the National Institute for Occupational Safety and Health (NIOSH) determined that firefighters have a 9% higher cancer rate than the general population, and a 14% higher risk of dying from cancer than the general population. The study also reported significantly higher percentages for some specific types of cancer. It is widely accepted that firefighters increased risk of developing health issues may be connected to their exposure to chemicals and toxic substances, primarily present in the smoke produced by structure fires. Subsequent research has robustly focused on the risk posed by dermal absorption – contaminants entering the body through the skin. The Illinois Fire Service Institute (IFSI), National Institute for Occupational Safety and Health (NIOSH), and the UL Firefighter Safety Research Institute (FSRI) have conducted several studies examining particulate exposure and the impact of laundering on PPE effectiveness. The studies reported high levels of contamination in the neck area. The Firefighter Cancer Support Network reports a 400% increase in contamination risk for every 5-degree increase in skin temperature. The culmination of studies resulted in the research and development of new PPE (particularly hoods) to reduce dermal absorption of contaminants. The research prompted National Fire Protection Association code modification (NFPA 1971) to include the protective hood as a required element for the structural firefighting protective ensemble. This code will be modified again next year to require particulate-blocking hoods as a required element. Manufacturers have created firefighting protective hoods that protect the head and neck from toxic airborne particulates, with an air permeable feature that allows clean air to flow through and allows moisture to escape to help reduce heat stress.

QUOTES

Please attach two quotes below for equipment requested.

Quote 1:

Amount Vendor Info
33889.80 Curtis

Please upload a copy here:
[Curtis Quote.pdf](#)

Quote 2:

Amount Vendor Info
44728.80

Please upload a copy here:

If two recent quotes are not attached please explain why

AGENCY HEAD APPROVING THIS REQUEST:

Prefix First Name Last Name
Norman "Brad" Bradley III

Title
Fire Chief

E-Mail
Please note that we will utilize this email address to communicate on-going status
bbradley@nwfdaz.gov

AGENCY CONTACT SUBMITTING REQUEST:

Prefix First Name Last Name
Sandy Russell

Title
Grant Manager

Complete Mailing Address
13535 N Marana Main Street

City State Postal Code
Marana Arizona 85653

E-mail
Please note that we will utilize this email address to communicate on-going status of this application
srussell@nwfdaz.gov

Office Phone Extension Mobile Phone Fax
5208871010 2940

By submitting this application form I agree that I am authorized to submit a request on behalf of the agencies and individuals listed on this application.
Type your initials below

Additional information may be requested by The 100 Club of Arizona's Safety Enhancement Stipend Committee in support of this application.

Links contained in this email have been replaced. If you click on a link in the email above, the

link will be analyzed for known threats. If a known threat is found, you will not be able to proceed to the destination. If suspicious content is detected, you will see a warning.

Ph: 602-453-3911
 TF: 877-453-3911
 Fax: 602-453-3910
azsales@lncurtis.com
 UEI#: DDLSADSWN7U7



Southwest Division
 4647 South 33rd Street
 Phoenix, AZ 85040
www.LNCurtis.com
 Quotation No. 286968

Quotation

CUSTOMER:

Northwest Fire District
 13535 North Marana Main
 Street
 Marana AZ 85653

SHIP TO:

Northwest Fire District
 Warehouse
 1520 W. Orange Grove Rd.
 Tucson AZ 85704

QUOTATION NO.	ISSUED DATE	EXPIRATION DATE
286968	01/16/2024	02/29/2024

SALESPERSON	CUSTOMER SERVICE REP
Travis Sparks tsparks@lncurtis.com 520-709-6360	Judy Buchanan jbuchanan@lncurtis.com 602-453-3911

REQUISITION NO.	REQUESTING PARTY	CUSTOMER NO.	TERMS	OFFER CLASS
Innotex Hoods	Erin Fick	C34068	Net 30	NPP-PPE

F.O.B.	SHIP VIA	DELIVERY REQ. BY
FTSP	Standard Shipping	

NOTES & DISCLAIMERS

Thank you for this opportunity to quote. We are pleased to offer requested items below. If you have any questions, need additional information, or would like to place an order, please contact your Customer Service Rep as noted above.

Safety Warning Notice: Products offered, sold, or invoiced herewith may have an applicable Safety Data Sheet (SDS) as prepared by the manufacturer of the product. The SDS is provided with the product. In addition, manufacturer's safety and/or warning notices, instructions and information relating to the proper use and care of the product is provided with the product. All applicable SDS, safety and/or warning notices, instructions and other information provided with the product should be thoroughly read, reviewed, and understood prior to handling, distributing, using, reselling, or servicing any and all products provided by Curtis. Materials utilized to clean, repair, maintain and/or service your owned equipment, as well as Curtis owned equipment, may contain per-and polyfluoroalkyl substances (PFAS) to meet national standards or original equipment manufacturer specifications. For other important product notices and warnings, or to request an SDS, product specifications, manufacturer's safety notices, instructions and/or warning notices, please contact Curtis or visit <https://www.lncurtis.com/product-notices-warnings>

Pricing per NPP/Gov Contract# PS20060
 Member ID: M-5691294

LN	QTY	UNIT	PART NUMBER	DESCRIPTION	PL	UNIT PRICE	TOTAL PRICE
1	300	EA	GRAY-HOOD-25- ML INNOTEX	Medium/Large Gray 20% Nomex / 80% Lenzing INNOTEX GRAY™ Hood 25	NFR	\$106.00	\$31,800.00

Ph: 602-453-3911
TF: 877-453-3911
Fax: 602-453-3910
azsales@lncurtis.com
UEI#: DDLSADSWN7U7



Southwest Division
4647 South 33rd Street
Phoenix, AZ 85040
www.LNCurtis.com
Quotation No. 286968

LN	QTY	UNIT	PART NUMBER	DESCRIPTION	PL	UNIT PRICE	TOTAL PRICE
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Small Business
CAGE Code: 5E720
SIC Code: 5099
Federal Tax ID: 94-1214350
UEI #DDLSADSWN7U7

This pricing remains firm until 02/29/2024. Contact us for updated pricing after this date.

Due to market volatility and supply shortages, we recommend contacting your local L.N. Curtis and sons office prior to placing your order to confirm pricing and availability. This excludes our GSA Contract and other Fixed Price Contracts which are governed by contract-specific prices, terms, and conditions.

Subtotal	\$31,800.00
Estimated Tax Total	\$1,939.80
Transportation	\$150.00
Total	\$33,889.80

[View Terms of Sale and Return Policy](#)

WEAR THE HOOD THAT'S WAY AHEAD.



INNOTEX
GRAYTM

PARTICULATE-BLOCKING HOODS

 **INNO
TEX**[®]

INNOTEX® GRAY PARTICULATE-BLOCKING HOODS: SHIELD YOURSELF FROM CONTAMINANTS.

TOXIC MICROSCOPIC CARCINOGENIC PARTICLES CAN TRAVEL THROUGH TRADITIONAL KNITTED HOODS.

When you set foot on the scene of a fire, you immediately come in contact with microscopic carcinogenic particles generated by burning materials. While we know that breathing in these cancer-causing particulates is dangerous, studies show that absorption of such toxins through the skin is just as harmful.

Unseen and imperceptible, these toxic microscopic particulates can travel through traditional knitted hoods and accumulate on your skin, especially on the highly absorptive areas of the neck, jaw and throat. As a firefighter, you face intense heat and work up a sweat. All this heat opens up skin pores, increasing its ability to absorb toxins.

Traditional hoods were designed to protect against heat, not carcinogenic particles. Today's particulate-blocking hoods are of paramount importance and a vital investment in your continued health and safety.



FOR EVERY 5-DEGREE INCREASE IN SKIN TEMPERATURE, CONTAMINATION RISK INCREASES BY 400%.

Following the lungs, the skin is the body's second largest organ by surface area, and is highly absorptive. Some areas of skin are more permeable than others, specifically the face, the angle of the jaw, the neck and throat. Skin's permeability increases with temperature.

As you get hot, the pores open up, the absorption capacity of the skin increases. The higher the temperature, the more permeable your skin becomes. For every 5-degree increase in skin temperature, absorption and the risk of contamination increase by 400%¹.

FIREFIGHTER CANCER QUICK FACTS

Research shows that firefighters have higher cancer risks than the general population, and their risks are significantly higher for some specific cancers.

9%

Firefighters have a 9% higher risk of being diagnosed with cancer than the general population.

14%

Firefighters have a 14% higher risk of dying from cancer than the general population.

61%

Cancer has caused 61% of career firefighter line-of-duty deaths since 2002. Heart disease caused 18% of the line-of-duty deaths.

¹ Firefighter Cancer Support Network
² IAFF date 1.1.2002 to 3.31.2017





- 1 FULL COVERAGE**
STEDAIR® PREVENT particulate-blocking barrier throughout the entire hood.
- 2 EXTRA-LONG 24" LENGTH**
Provides complete chest and shoulder coverage. Ensures your hood stays securely tucked in, preventing particulate entry at the coat-to-neck interface.
- 3 MULTI-PANEL DESIGN**
Ensures a snug fit and proper seal with your SCBA, no matter the head movement, even tilted backward.
- 4 FR VISCOSE LINER**
Provides a soft, cool feeling on your skin and boasts excellent moisture-wicking properties to keep you drier and more comfortable.
- 5 HEAVY-DUTY 1/2" ELASTIC SEWN INTO FACE OPENING**
Ensures a snug fit and proper seal with your SCBA even when you move your head. Stretches for easy donning without ever losing its shape.
- 6 FLATLOCK SEAMS**
Stronger yet low-profile, ensure a more comfortable fit. Sewn with spun Nomex thread for optimal quality.
- 7 FR KNIT**
Form-fitting knit allows a comfortable fit that conforms to the contours of your head.

ULTIMATE COMFORT. ULTIMATE PROTECTION.



BLOCKS MORE THAN 99.9% OF PARTICLES
STEDAIR® PREVENT particulate barrier blocks more than 99.9% of particles as small as 0.1 to 1.0 microns.



AIR PERMEABLE
Allows clean air to flow through and lets moisture escape efficiently to help reduce the risk of heat stress.



SUPERIOR COMFORT
Lightweight and ergonomically-designed to ensure a comfortable fit. Inner multi-filament FR viscose liner provides a soft, cool feeling on your skin and boasts excellent moisture-wicking properties.



QUIET
Won't make crackling noises that affect your situational awareness and limit your ability to communicate.



DURABLE
Maintains its particulate-blocking effectiveness even after 100 washes. Face opening retains its snug fit to prevent ingress of harmful particulates.

INNOTEX GRAY™ PROPRIETARY PATENT-PENDING TRILAMINATE.

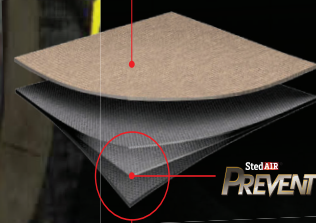
Protection against particulates is essential, and so is your comfort.

Our proprietary patent-pending trilaminate features industry-leading STEDAIR® PREVENT particulate-blocking barrier for optimal protection and our INNOTEX-exclusive multi-filament FR viscose inner layer for greater comfort and moisture-wicking properties.

It slides like silk, always falls perfectly into place without bunching, and won't pill even after numerous washes.

FR RIB KNIT OUTER LINER

- Choose from 2 knit options:
- 20% PBI / 80% Lenzing
 - 20% Nomex / 80% Lenzing



PROPRIETARY TRILAMINATE INNER LAYER

Patent Pending

- Nomex® Lenzing
- Particulate-blocking STEDAIR® PREVENT
- 100% multi-filament FR Viscose

YOUR CHOICE: HIGHER TPP OR HIGHER THL.

Because everyone has different needs when it comes to thermal protection and breathability, we've developed 2 models, one featuring our exclusive Dual Metabolic Zone design. Choose the **GRAY 25** hood for enhanced heat stress control or the **GRAY 35** hood for optimal thermal protection in critical areas.

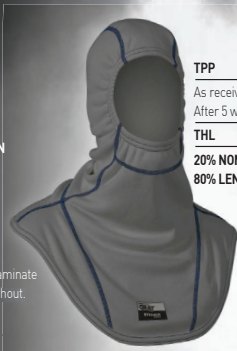
INNOTEX® GRAY™ HOOD25 + THL

SINGLE METABOLIC ZONE DESIGN
Effective heat stress relief without compromising thermal protection.

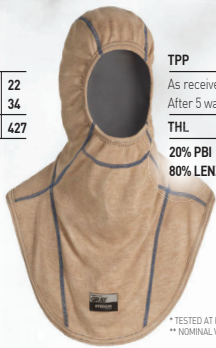
- 2-LAYER HOOD**
- **ONE** FR knit outer layer.
 - **ONE** inner layer : INNOTEX® Trilaminate with STEDAIR® PREVENT throughout.



● TWO layers



TPP	
As received	22
After 5 washes	34
THL	427
20% NOMEX 80% LENZING	



TPP	
As received	22*
After 5 washes	25**
THL	437
20% PBI 80% LENZING	

* TESTED AT PBI® LAB
** NOMINAL VALUES

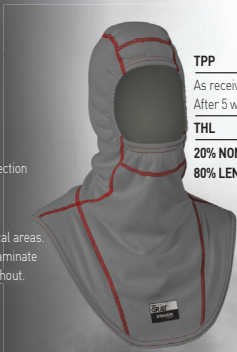
INNOTEX® GRAY™ HOOD35 + TPP

DUAL METABOLIC ZONE DESIGN
Higher thermal and flashover protection only where you need it most.

- 3-LAYER HOOD**
- **TWO** FR knit outer layers in critical areas.
 - **ONE** inner layer : INNOTEX® Trilaminate with STEDAIR® PREVENT throughout.



● THREE layers
● TWO layers



TPP	
As received	36
After 5 washes	47
THL	329
20% NOMEX 80% LENZING	



TPP	
As received	38
After 5 washes	34
THL	350
20% PBI 80% LENZING	



MADE IN USA

FABRIC PERFORMANCE.

INNOTEX® GRAY™ 25/35 HOOD PERFORMANCE VALUES

		INNOTEX® GRAY™ HOOD25		INNOTEX® GRAY™ HOOD35	
		20% NOMEX 80% LENZING	20% PBI 80% LENZING	20% NOMEX 80% LENZING	20% PBI 80% LENZING
PARTICULATE-BLOCKING EFFICIENCY	As received	99.9%	99.6%	99.9%	99.6%
	After 10 washes	99.8%	99.3%	99.8%	99.3%
THERMAL PROTECTIVE PERFORMANCE (TPP)	As received	≥ 20	22.6	36.7	38.6
	After 5 washes	≥ 20	34.1	47.2	34.8
TOTAL HEAT LOSS (THL)	As received	≥ 325 W/m2	427	329	350
AFTER FLAME (Wales X Courses / sec)	As received	≤ 2.0	0	0	0
	After 5 washes		0	0	0
CHAR LENGTH (Wales X Courses / mm)	As received	≤ 2.0	23 x 18	23 x 18	20 x 28
	After 5 washes		18 x 16	30 x 28	30 x 28
HEAT & THERMAL SHRINKAGE RESISTANCE (%)	As received After 5 washes	≤ 10%	M/L -0.8 % XL -1.5 %	M/L -0.2 % XL 0%	M/L 0 % XL 0 %
			M/L -0.5 % XL -0.5 %	M/L -1.4 % XL -1.6 %	M/L -0.2 % XL 0.2 %
CLEANING SHRINKAGE RESISTANCE (%)	Finished hood	≥ 5%	M/L -1 % XL -1.6 %	M/L -1 % XL -1 %	M/L 0 % XL -2.0%
FABRIC BURST STRENGTH	Knit	≥ 225 N	480	480	345
	Stedair Prevent		546	546	546

FABRIC PERFORMANCE VALUES IN ACCORDANCE WITH NFPA 1971-2018 EDITION.
PERFORMED BY UNDERWRITERS LABORATORIES.
* TESTED AT PBI® LAB. ** NOMINAL VALUES.

INNOTEX
GRAY™