

**STATE EMERGENCY RESPONSE COMMISSION
HAZARDOUS MATERIALS EMERGENCY PREPAREDNESS (HMEP)
MID-CYCLE GRANT APPLICATION
TITLE PAGE**

Applicant: **Clark County Fire Department**

Address: **575 E. Flamingo Rd., Las Vegas, NV 89119**

Local Emergency Planning Committee (LEPC) Chair:

Name: **Billy Samuels**

Title: **Deputy Fire Chief**

Address: **575 E. Flamingo Rd.**

City/Zip: **Las Vegas, NV 89119**

Phone: **702-455-5710**

Fax: **(702) 455-5718**

E-mail: **bsamuels@ClarkCountyNV.gov**

Fiscal Officer: (Address must match for the appropriate vendor code for the County)

Name: **Pamela Hatty**

Title: **Administrative Specialist**

Address: **575 East Flamingo Road**

City/Zip: **Las Vegas, NV**

Phone: **(702) 455-6183**

Fax: **(702) 455-5718**

E-mail: **hattyp@clarkcountynv.gov**

Budget Summary:

Planning	Training	Total*
\$0.00	\$0.00	\$154,350.00

Round up total* only to the nearest dollar

LOCAL EMERGENCY PLANNING COMMITTEE APPROVAL:

On behalf of the LEPC, I certify this body has reviewed this grant application and agrees to abide by the Federal and State procedures which are related to the acceptance of funds.


Billy Samuels, LEPC Chair

6/12/2023
Date

GOVERNING BODY APPROVAL: (i.e. County Commissioner, County Manager)

The LEPC has the approval to apply for funding through this grant.

Kevin Schiller, County Manager

Date

Kevin Schiller, County Manager
(Print Name and Title)

I. GOALS:

Tell the SERC what you want to accomplish with this grant. Provide a separate discussion of each goal and justify its need towards the prevention, mitigation and/or response to hazardous materials incidents involving transportation. The goals are general statements of desired results and identify intended outcomes and results the program has established to achieve with these funds.

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Clark County Local Emergency Planning Committee's (LEPC) goal is to obtain funding to acquire fire suppression blankets to be utilized by fire departments within Clark County to train fire service personnel in tactical response to hazardous materials, as well as to equip front-line apparatus for rapid deployment and mitigation of emergency hazardous materials incidents.

On March 24th, 2023, fire departments located within Clark County, in conjunction with other public safety partners, participated in live-fire training using internal combustion vehicles at the Clark County Fire Department (CCFD) Training Center simulating vehicle fires that might be encountered within our community. The goal of this training was to evaluate the effectiveness of electric vehicle (EV) blankets and related equipment. Three EV blankets and a nozzle designed to cool an electric vehicle battery pack were procured and tested. A qualitative evaluation considered efficacy, ease of use, and durability was completed by eliciting verbal response from members of the IAFF Local 1908 Research and Development Committee. Data points from the evolutions measured blanket effectiveness.

See attached summary of this evaluation below.

II. OBJECTIVES:

How do you plan to achieve the goals listed above? Include specific uses of this grant funding to prevent, mitigate and/or respond to hazardous materials incidents involving transportation. Objectives focus on the methods/activities to be used to achieve the goals they support.

Answer these questions in each objective:

- ✓ **WHAT** will be done with these funds?
- ✓ **WHO** is responsible for making arrangements and payments for the activities of this allocation?
- ✓ **WHEN** will the activity be implemented?

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Training Fire Suppression Personnel

Training for Southern Nevada fire department personnel will be disseminated using electronic training material developed following the March 2023 live-fire

evolutions conducted at the CCFD Training Center. Distribution of policy recommendations in the form of a draft SOP/SOG will be shared by CCFD electronically. This draft is intended for amendment/adoption by participating agencies (See attachment CCFD SOP Draft.)

Training guidance will be conducted and delivered by the training divisions of participating fire departments. Upon procurement of equipment, the training component will be delivered and completed within 90 days. Equipment distribution to immediately follow.

Distribution of Fire Blankets

Clark County Office of Emergency will be responsible for procurement and distributions of single-use fire blankets to participating fire departments. Participating fire departments will further distribute this equipment to fire suppression apparatus (to be defined as engine or truck companies) that would be called to manage a hazardous material incidents of this type. A graph of participation requested is below.

Agency Participation

Participating /Agency	# Engines	# Trucks	#Training	#Total Units/ Agency
Clark County Fire Dept.	39	8	4	51
Las Vegas Fire and Rescue	22	6	4	32
Henderson Fire Dept.	14	2	3	19
North Las Vegas Fire Dept.	6	2	3	11
Boulder City Fire Dept.	1	1	1	3
Mt. Charleston Fire Dept.	2	1	1	4
Mohave Valley Fire Dept.	1	1	1	3
Mesquite Fire and Rescue	1	1	1	3
UNIT TOTALS	86	22	18	126

Budget information for this grant includes options for three different products and scalability of the grant request based on available funding.

Product Options

Commercially available product options include EV blankets manufactured by Bridgehill, Darley Manufacturing, and Stephens Truck Center (Fire Cloak). Products from these manufacturers were evaluated and performed similarly. Three vendors (L.N. Curtis, Darley, and Stephens Truck Center) are identified, and current quotes are attached for review.

Unit Option / Description	COST	VENDOR	POC
Option #1: Bridgehill (Single-use) 20+ blankets	\$ 1,393.00	LN Curtis / Darley.com	Dan Brias / Ryan Darley
Option #2: Darley (Single-use) 20+ blankets	\$ 1,317.50	Darley Man.	Ryan Darley
Option #3: Fire Cloak EV blanket (Single-use)	\$ 1,225.00	Stephens Truck Center	Brady Stephens

Budget Requests

This request totals \$154,350.00 for the immediate purchase of 19 EV blankets to be used for hands-on training and 107 EV blankets to be distributed to all suppression units (engine and truck companies) of participating agencies.

Purchase Option	Scalability Option # (All Suppression/Training)	Scalability Option #2 (Engines/Training)	Scalability Option #3 (Trucks/Training)	Training equipment costs: 1 Blanket / battalion (HOT)
Option #1: Bridgehill (Single-use) 20+ blankets	\$ 175,518.00	\$ 144,872.00	\$ 55,720.00	\$ 25,074.00
Option #2: Darley (Single-use) 20+ blankets	\$ 166,005.00	\$ 137,020.00	\$ 52,700.00	\$ 23,715.00
Option #3: Fire Cloak EV blanket (Single-use)	\$ 154,350.00	\$ 127,400.00	\$ 49,000.00	\$ 22,050.00

III. BUDGETS:

Training:

All training requests must first be made through the State Fire Marshal's office (SFM) and the Department of Emergency Management (DEM). If the SFM or DEM declines the training, the request may be included in the grant application along with the letter of declination.

Please note a minimum of 50% of classes attended must have a tie-in to hazmat in transportation. All expenses must be itemized. State per Diem rates (which generally follow the federal GSA rates; (<http://www.gsa.gov>) will prevail unless local/negotiated rates are less. Hotel receipts are required for all lodging reimbursement requests, including in state lodging. Meals included in registration fees will not be reimbursed. Travel eligibility requirements and rates are further defined in SERC policy 8.5.

Requests for a consultant/contractor to provide training must be accompanied by at least two competitive bids. The bids must include an itemized quote and detailed scope of work from the consultant/contractor.

If a privately owned vehicle is used for agency convenience, mileage may be reimbursed at the State rate, currently .655 cents per mile. If a personal vehicle is used for personal convenience, the reimbursement allowed is .3275 cents per mile. If an agency vehicle is used, reimbursement may be made for fuel charges based on receipt or agency fuel logs. Airport parking and ground transportation expenses are reimbursable upon presentation of receipts. Rental cars must be pre-approved by the SERC. All travel expenses are based on GSA rates and guidelines as well as the Nevada State Administrative Manual and mileage is based on the maximum allowed with the State of Nevada during the grant period of potential awards.

Consultant / Contract Services / Other		Amount Requested
Name		
Total Contract Training:		\$0.00

Course / Conference Costs				
Course / Conference Title:				
Registration	Cost per Attendee	# of Attendees		\$0.00
Hotel	Cost per Night	# of Nights	# of Rooms	\$0.00
Per Diem	Cost per Day	# of Days	# of Attendees	\$0.00
Transportation	# of Miles (Round Trip)	Agency Vehicle	# of Vehicles	\$0.00
		0.655		
	# of Miles (Round Trip)	Personal Vehicle	# of Vehicles	\$0.00
		0.3275		
	Public Transportation	Total \$ Amount		\$0.00
	Cost of Airline Ticket	# of Tickets		\$0.00
Parking	Cost per Day	# of Days	# of Vehicles	\$0.00
Total Course / Conference Costs:				\$0.00
Total Training Costs:				\$0.00

Double click on any box to open an embedded Excel Spreadsheet to enter your data, when finish click anywhere outside the box to re-embed the data into the Word document and then SAVE your work!!!

IV. BUDGET NARRATIVE

This is an explanation of the line items identified in each category. The budget narratives must explain the use of the requested grant funds. Budget narratives must be included for each category for which there is a request for items/services. Justify the relationship between the items listed within each category and the goals and objectives of this grant request. The budget narratives must tie each item requested to the goals and objectives of this project.

Planning Services -

Explain the basis for selection of each consultant or conference attendance and describe how the activity to be provided is essential to achieving established goals.

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N/A

Training -

Explain the purpose of the training and/or the consultant/contractor and how it relates to achieving established goals. Provide location of training, duration, itemized transportation and per diem expenses. Attach a copy of the letter of declination from SFM and DEM.

Click inside gray box to begin typing

Training will be managed by individual participating fire departments using information provided. (See SOP draft)

CERTIFIED ASSURANCES For LEPCs

Grant Title: HMEP Mid-Cycle Grant 2022

Upon acceptance of funding from the State of Nevada Emergency Response Commission (SERC), the applicant and the lead governmental unit hereby agree to the following Certified Assurances governing the awarding of funds:

- A) The applicant assures compliance with the Nevada Administrative Code (NAC) 459.9912 et seq. and SERC policies found at <http://serc.nv.gov>.
- B) **FINANCIAL REPORTS** – The recipient is required to submit, at a minimum, quarterly financial reports to the SERC. Reporting must be made in accordance with all applicable federal, state, and local laws and regulations, and SERC Policies 8.5 and 8.6.

No expenditures or obligations will be eligible for reimbursement if occurring prior to or after the award period. All funds need to be obligated by the end of the grant period and expended by the final report date as stated in the grant award cover letter. Failure to submit proper reports pursuant to current policies may jeopardize future funding from the SERC.

- 1) **Request for advance:** May be requested only if expenses total over \$2,000.00 and is accompanied by a dated purchase order or quote. Complete and submit a financial report form with the appropriate "request for advance" box checked.
- 2) **Report on expenditure of advance:** Show the actual expenditure of the advanced funds. Complete and submit a financial report form with the appropriate "report on expenditure of advance" box checked. This report is due **within 30 days** of the date of the advanced check and must include copies of dated invoices and proof of payment. If the amount advanced is more than the amount spent or the advanced amount is not spent within the 30 days, the unexpended funds are to be returned to the SERC within 45 days of the date of the check.
- 3) **Request for reimbursement:** Complete and submit a financial report form, at a minimum quarterly, for all expenditures funded by the grant. Include a summary breakdown of expenses, copies of dated invoices, proof of payment and any other documents required by SERC policies. Any other form of documentation for expenditures must be approved by the SERC staff. If additional funds are used toward the project, report those expenditures as a **match** in the appropriate line on the report form.
- 4) **Quarterly report required:** If there are no expenditures within the quarter, a report with an explanation of why and the plan for future expenditures is due by the end of the month following the end of the quarter. Due dates for quarterly reports are as follows:

October 31	- for reporting period July 1 to September 30;
January 31	- for reporting period October 1 to December 31;
April 30	- for reporting period January 1 to March 31; and
July 31	- for reporting period April 1 to June 30.

- 5) **Final report:** There will be no further expenditures, the grant is closed and no further reports are necessary. This report is due within **30 days** after the end of the award period, or any time prior to the end of the award period if no further funds will be spent.
- C) **EXERCISE REPORTS** – To be eligible for grant funding, the LEPC must report to the SERC by January 31st of each year on at least one real event and/or tabletop, functional, or full-scale exercise or drill which utilizes and implements the hazardous materials emergency response plan. An exercise is required at least once every third year.
- D) **GRANT CHANGE REQUEST** – Grant expenditures are authorized for the purposes set forth in this application, as approved in the grant award, and in accordance with all applicable laws, regulations, and policies and procedures of the State of Nevada and the applicable federal granting agency. Request for a change in the project must be submitted to the SERC and approved in writing prior to its implementation. Approval may be required by the Funding Committee if the change is significant (SERC Policy 8.7).
- E) The applicant assures compliance with 2 *CFR* 1200, *Non-procurement Suspension and Debarment*. The applicant assures, through the submission of the grant application for funding, neither the lead agency, county government nor any of its participating agencies are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in the transaction by any federal department or agency.
- F) The applicant assures the fiscal accountability of the funds received from the SERC will be managed and accounted for by the lead agency's chief comptroller. Internal control and authority to ensure compliance with the SERC's documentation, record keeping, accounting, and reporting guidelines will reside with that individual.
- G) The SERC will reimburse the recipient reasonable, allowable, allocable cost of performance, in accordance with current federal requirements, Nevada Revised Statute, Nevada Administrative Code, State Administrative Manual, SERC policies and any other applicable fiscal rules, not to exceed the amount specified at the total award amount.
- H) The applicant assures it shall maintain data and information to provide accurate financial reports to the SERC. Said reports shall be provided in form, by due dates and containing data and information as the SERC reasonably requires to administer the program.
- I) The applicant assures financial reports shall be submitted within 30 calendar days of the end of each calendar quarter and within **30 days** of the end of the grant period and shall be current and actual.
- J) The applicant assures funds made available under this grant will not be used to supplant state or local funds.
- K) The applicant assures compliance with 2 *CFR* 200.212 and 180, *Non-procurement Suspension and Debarment*. The applicant assures, through the submission of the grant application for funding, neither the lead agency, county government, any of its participating agencies, are potential vendors, contractors or providers debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in the transaction by any federal department or agency.

- L) The applicant assures that it will comply with Administrative Requirements 2 CFR part 200, Uniform Administrative Requirements for Grants and Cooperative Agreements to State and Local Governments appropriate to the award as follows:
1. 49 CFR 110, *Hazardous Materials Public Sector Training and Planning Grants*
 2. 49 CFR 18, *Uniform Administrative Requirements for Grants and Cooperative Agreements to State, Local and Tribal Governments*
 3. 2 CFR 225, *Cost Principles for State, Local and Indian Tribal Governments*
 4. OMB Circular A-133, *Audits of States, Local Governments and Nonprofit Organizations* (now contained in 2 CFR 200)
 5. 49 CFR 20, *New Restrictions on Lobbying*
 6. 49 CFR 32, *Government wide Requirements for Drug-Free Workplace*
- M) The applicant assures compliance with the below in any programs and activities receiving federal financial assistance:
- Title VI of the Civil Rights Act of 1964*, which prohibits discrimination on the basis of race, color and national.
- 49 CFR 21*, Nondiscrimination in Federally Assisted Programs of the Department of Transportation, Effectuation of Title VI of the Civil Rights Act of 1964.
- Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990*, which prohibits discrimination based on disability.
- The Age Discrimination Act of 1975*, which prohibits unreasonable discrimination based on age.
- Title IX of the Education Amendments of 1972*, which prohibits discrimination based on gender in educational activities.
- N) Any publication (written, visual, or audio) issued by the sub-grantee describing programs funded whole or in part with federal funds, shall contain the following statement:
- "This program was supported by Grant # _____, awarded by the Nevada State Emergency Response Commission (and, if an HMEP grant, the U.S. Department of Transportation). Points of view or opinions contained within this document are those of the author and do not necessarily represent the official position of policies of the State Emergency Response Commission (and, if an HMEP grant, U.S. Department of Transportation)"
- O) The applicant fully understands the SERC has the right to suspend, terminate or de-obligate grant funds to any grantee/sub-grantee that fails to conform to the requirements or the terms and conditions of its grant award and/or non-compliance.
- P) **LOBBYING** - No grant funds appropriated will be paid, by or on behalf of the grantee/sub-grantee, to any person for influencing or attempting to influence an officer, employee, or a member of Congress, or an officer, employee, or any member of the Nevada State Legislature.
- Q) Project related income, (i.e., registration fees, royalties, sales of real and personal property) must be used for the purpose of furthering the goals and objectives of the project or program from which the income was generated. Interest earned must be returned to the SERC.

- R) All activities and purchases utilizing any SERC administered sources of funding must comply with all local, state, and federal laws and regulations as well as grant specific requirements. It is the responsibility of sub-grantees to be familiar with any such laws, regulations and requirements.
- S) Applicant understands that an updated addendum to the grant may be required based on the federal guidelines between now and the time of the award documents based on requirements for State of Nevada or the federal sponsoring agency.

The applicant acknowledges receipt of these Certified Assurances and hereby assures adherence to all the above conditions of a grant award from the SERC.

GOVERNMENTAL UNIT (I.E., COUNTY COMMISSION, COUNTY MANAGER)

Name (print): Kevin Schiller

Title: County Manager

Signature: _____

_____ Date

LOCAL EMERGENCY PLANNING COMMITTEE CHAIRMAN

Name (print): Billy Samuels

Title: LEPC Chair

Signature: _____

_____ Date

RETURN THIS SIGNED FORM WITH GRANT APPLICATION

LEPC COMPLIANCE CERTIFICATION

The following requirements must be met by the LEPCs for compliance with federal, State and SERC laws, regulations and policies and procedures. This checklist must be completed, signed and returned annually by March 31, even if the LEPC is not a recipient of grant funds.

A check mark in the squares on the left will indicate a YES response.

- ☒ Have changes in the LEPC Bylaws and Membership list been submitted to SERC?
- | | | |
|------------------------------------|---------------|--------------------|
| Bylaws reviewed/updated - | Date: 1/31/23 | Submitted: 1/31/23 |
| Membership list reviewed/updated - | Date: 1/31/23 | Submitted: 1/31/23 |
- ☒ Have LEPC meetings been held, at a minimum quarterly, and have agendas and minutes of all meetings, including special meetings, been forwarded to the SERC?
- ☒ Has the LEPC submitted all required reports which summarize the financial management of the active grants (*i.e., copies of invoices and verification of expenditures*)?
- ☒ Has the LEPC reviewed and updated its hazardous materials emergency plan (or hazmat portion of the jurisdiction's "all hazards" plan), NRT-1, Level of Response Questionnaire and Letter of Promulgation within the last year? Have the review results and updates been submitted to the SERC in writing along with a copy of the LEPC meeting minutes documenting review of the Plan by January 31st?
- | | | |
|--|-----------------|----------------------|
| Plan update - | Date: 1/20/2020 | Submitted: 1/31/2023 |
| NRT - 1 update - | Date: 1/31/2023 | Submitted: 1312023 |
| Level of Response Questionnaire update - | Date: 1/31/2023 | Submitted: 1/31/2023 |
| Letter of Promulgation update - | Date: 1/31/2023 | Submitted: 1/31/2023 |
- ☒ Has the LEPC reported on at least one incident or exercise (exercise required at least every third year) of its hazardous materials emergency response plan by January 31st?
- Indicate the date of the most recent exercise: 7/22/22 & 11/19/22 Submitted: 1/31/23
- Indicate the date of an incident report used in lieu of an exercise: Submitted:
- ☒ Has the LEPC met the **annual** requirement of publishing the Emergency Planning and Community Right-to-Know Act "information availability" in the local newspaper? Has the standard Affidavit of Publication been sent to the SERC?
- Date of publication: 7/31/22 Affidavit Submitted: 1/31/23
- ☒ Has LEPC read SERC policies?

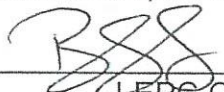
As chairman
of

Clark

County Name

Local Emergency Planning Committee, I attest

all information provided on this Compliance Certification is accurate



LEPC Chair Signature

6/12/2023
Date

**STATE EMERGENCY RESPONSE COMMISSION
HAZARDOUS MATERIALS EMERGENCY PREPAREDNESS (HMEP)
ACTIVITY REQUEST FORM**

**REQUIRED: Complete a separate form for each separate
activities on grant**

Section A – Requesting Organization

Organization: **Clark County Fire Department**
Street Address: **575 E. Flamingo Rd.**
City / Zip Code: **Las Vegas, NV 89119**

Section B – Point of Contact

First Name: **Jonathan**
Last Name: **Wiercinski**
Phone: **702-455**
E-Mail: **jwiercin@ClarkCountyNV.gov**
Position: **Project Coordinator**

Section C – Grant Activity Request Information

Amount: **154,350.00**

Activity:
(Planning or Training)

Section D – Activity Description

Number of Participates:

(Enter "0" if funding is requested for planning activities without an associated number of participants such as plan updates and commodity flow studies).

Activity Description and Justification:

What do you want to accomplish with this grant. Provide a separate discussion of each goal and justify its need towards the prevention, mitigation and/or response to hazardous materials incidents involving transportation. The goals are general statements of desired results and identify intended outcomes and results the program has established to achieve with these funds.

Clark County Local Emergency Planning Committee's (LEPC) goal is to obtain funding to acquire multiple single-use EV blankets to be utilized by fire departments within Clark County to train fire service personnel in tactical response to hazardous materials as well as to equip front-line apparatus for rapid deployment and mitigation of emergency hazardous materials incidents.

How does this further your organization's program mission?

Include specific uses of this grant funding to prevent, mitigate and/or respond to hazardous materials incidents involving transportation. Objectives focus on the methods/activities to be used to achieve the goals they support.

Transportation vehicles such as tractor trailer trucks, vans, passenger trucks and automobiles being used on highways and roads have traditionally been powered by internal combustion engines. These vehicles are used to move various amounts and types of commodities including hazardous materials throughout the state. In recent years, some of these vehicles are powered by alternative fuels - electricity/hybrid, propane, liquified, or compressed natural gas and hydrogen.

Many of these vehicles are now powered by electric /hybrid - lithium- ion batteries. These vehicles utilize highly energized battery modules secured in robust compartments of the vehicle making it extremely difficult and potentially dangerous to access for first responders. Commercial vehicles (i.e., Amazon, FedEx, Tesla) and passenger electric and hybrid vehicle numbers have increased exponentially over the past several years and are expected to continue to grow, increasing the likelihood of this type of incident.

When involved in fire, the fuel cells of these vehicles become the hazardous material. Traditional methods of extinguishment for these fuel cells involve applying large amounts of water to cool an EV or hybrid vehicle and its battery components. Water supplies of the adequate size are not accessible on all highway or roadways and traditional suppression efforts may be an ineffective means of dealing with the emergency.

Run off from fire suppression also releases contaminated water into the surrounding areas and storm water systems that feed into our primary water source (Lake Mead). Commercial transportation and delivery of lithium battery components, lithium- ion fuel cells, cells being transported for the purpose of being recycled, and fire damaged material being processed as hazardous waste present unique obstacles that challenge traditional firefighting strategies and tactics.

The use of fire blankets is a new approach to mitigate this emerging hazardous materials threat while using tried and true fire behavior and suppression principles. Properly applied EV fire blankets can disrupt three legs of the fire tetrahedron: oxygen removal, heat reduction, and inhibition of the chemical chain reaction. All of these enhance fire suppression, improve hazardous material containment, and decrease external contamination, resulting in improved firefighter and public safety outcomes.

Does this activity replace an item included in the approved application? If yes, what activity is being replaced and why?

No

Ph: 510-839-5111
TF: 800-443-3556
Fax: 510-839-5325
oaksales@lncurtis.com
UEI#: DDLSADSWN7U7

CURTIS

TOOLS FOR HEROES

Pacific North Division
6723 Sierra Court, Suite C
Dublin, CA 94568
www.LNCurtis.com
Quotation No. 263554

Quotation

CUSTOMER:	SHIP TO:	QUOTATION NO.	ISSUED DATE	EXPIRATION DATE
Clark County Fire Department NV Administrative Offices 575 East Flamingo Road Las Vegas NV 89119	Clark County Fire Department NV 4425 West Tropicana Avenue Las Vegas NV 89103	263554	05/25/2023	06/24/2023
		SALESPERSON	CUSTOMER SERVICE REP	
		Dan Bria dbria@lncurtis.com 775-721-7678	Dan Bria dbria@lncurtis.com 775-721-7678	

REQUISITION NO.	REQUESTING PARTY	CUSTOMER NO.	TERMS	OFFER CLASS
	JON WIERCINSKI	C30356	Net 30	FR
F.O.B.	SHIP VIA	DELIVERY REQ. BY		
DEST	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. Any handlers or users of product should refer to applicable SDS prior to handling or utilizing the product. Applicable SDS are included with shipment of products. For other important product notices and warnings, or to request an SDS, please contact Curtis or visit <https://www.lncurtis.com/product-notice-warnings>

Transportation is included in below pricing.

LN	QTY	UNIT	PART NUMBER	DESCRIPTION	PL	UNIT PRICE	TOTAL PRICE
1	1	EA	BRIDGEHILL CUSTOM	As Below: BP194 BRIDGEHILL Car Fire Blanket - Single Use		\$1,819.00	\$1,819.00
2	1	EA	PA3-EV TFT	1.5NHF G-Force Transformer Nozzle System - EV Configuration, Includes: - Three Port Junction Block w/Striking Cap - Distributor Nozzle (Also Known as a Bresnan or Cellar Nozzle) - 4ea. 19" (.5 Meter) Extension Tubes - Twist-Grip Shutoff Valve - Heavy-Duty Carrying Bag w/ Compartments	OM	\$1,450.00	\$1,450.00

Ph: 510-839-5111
TF: 800-443-3556
Fax: 510-839-5325
oaksales@lncurtis.com
UEI#: DDLSADSWN7U7



Pacific North Division
6723 Sierra Court, Suite C
Dublin, CA 94568
www.LNCurtis.com
Quotation No. 263554

LN	QTY	UNIT	PART NUMBER	DESCRIPTION	PL	UNIT PRICE	TOTAL PRICE
----	-----	------	-------------	-------------	----	------------	-------------

Small Business
CAGE Code: 5E720
SIC Code: 5099
Federal Tax ID: 94-1214350
UEI #DDLSADSWN7U7

This pricing remains firm until 06/24/2023. 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	\$3,269.00
Estimated Tax Total	\$0.00
Transportation	\$0.00
Total	\$3,269.00

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

Stephens Truck Center LLC
3920 8th St
Oklahoma City, OK 73107 US
stcsalesok@gmail.com



Estimate

ADDRESS

Jon Wiercinski
Clark County Fire Department
575 E. Flamingo Road
Las Vegas, NV 89119

SHIP TO

Jon Wiercinski
Clark County Fire
Department
575 E. Flamingo Road
Las Vegas, NV 89119

ESTIMATE # 2099

DATE 06/02/2023

EXPIRATION DATE 07/31/2023

DATE	ACTIVITY	DESCRIPTION	QTY	RATE	AMOUNT
	BATPCFB2186	CFB2186 EV Car Fire Blanket 8m x 6m	6	1,225.00	7,350.00
	BATP Green Fire Blanket Bag	BATP Green Fire Blanket Bag	6	0.00	0.00

The BATP green fire blanket bag is free with purchase of blanket. The bag will ship separately at no charge.

Airgroup Inc is the shipping company used and can deliver your freight within 4-7 transit days to the address above

SUBTOTAL	7,350.00
SHIPPING	421.00
TOTAL	\$7,771.00

Accepted By

Accepted Date



325 SPRING LAKE DRIVE
ITASCA, IL 60143-2072

PHONE (800) 323-0244
FAX (630) 735-3560

QUOTE

EnterQuote#Here

QUOTE DATE
QUOTE VALIDITY
CUSTOMER ACCOUNT
PO#

6/12/2023
8/11/2023

BILL TO

Jonathan Wiercinski
Project Coordinator
Clark County Fire Department
jwiercin@clarkcountynv.gov
702.813.5025

SHIP TO

Company/Department
Contact
Address
CityStateZip
Phone/Email

PAYMENT**FOB POINT****SALES MANAGER****CUSTOMER SERVICE | ASSISTANT**

**WIRE
TRANSFER**

ORIGIN

RYAN DARLEY
(612) 799-5598
ryandarley@darley.com

CUSTOMER SERVICE
(800) 323-0244
pumpsales@darley.com

LINE ITEM	PART NUMBER	PART DESCRIPTION	QTY	UNIT PRICE	Qty Discount 20+ Units	UNIT WITH DISCOUNT	TOTAL
1	BP818	Darley reuseable car fire blanket 6X8M	1	\$2,600.00	15%	\$ 2,210.00	\$ 2,210.00
2	BP819	Darley single use car fire blanket, 6X8M	1	\$1,550.00	15%	\$ 1,317.50	\$ 1,317.50
9	BP194	Bridgehill Car Fire Blanket Single Use 6m x 8m (18 ft. x 24 ft.) Packaged Weight and dims: 23 in x 15 in x 10 in 62 lbs	1	\$1,639.00	15%	\$ 1,393.15	\$ 1,393.15
11	BP575	Bridgehill Car Fire Blanket Pro-X 6m x 8m (18 ft. x 24 ft.) Multi-Use Gen2 Packaged Weight and dims: 23 in x 15 in x 10 in 57 lbs	1	\$3,230.00	15%	\$ 2,745.50	\$ 2,745.50
		Freight	1	\$150.00		\$ 150.00	\$ 150.00

Special Terms:

1. Customer P.O. constitutes acceptance of these terms.
2. Quote expires in 60 days herein.
3. Freight shall be billed with order or according to customer request.
4. All freight is FOB Chippewa Falls, WI 54729, unless otherwise noted.
5. Crating charges need to be determined for final pricing.
(See next page)

SUBTOTAL	\$4,288.65
FREIGHT	\$150.00
TOTAL	\$4,438.65

Product availability, prices and delivery dates are based upon information available at the time of quote. All information is subject to reconfirmation at time of order. Additional fees may be added in the event any export/import licenses need to be obtained. Additional fees will be addressed by your regional sales manager.

For more information, please visit: www.darley.com

Unit Option / Description		COST		VENDOR	
Option #1: Bridgehill (Single-use) 20+ blankets		\$	1,393.00	LN Curtis / Darley.com	
Option #2: Darley (Single-use) 20+ blankets		\$	1,317.50	Darley Man.	
Option #3: Fire Cloak EV blanket (Single-use)		\$	1,225.00	Stephens Truck Center	
Participating /Agency		# Engines		# Trucks	
Clark County Fire Dept.			39	8	
Las Vegas Fire and Rescue			22	6	
Henderson Fire Dept.			14	2	
North Las Vegas Fire Dept.			6	2	
Boulder City Fire Dept.			1	1	
Mt. Charleston Fire Dept.			2	1	
Mohave Valley Fire Dept.			1	1	
Mesquite Fire and Rescue			1	1	
UNIT TOTALS			86	22	
Purchase Option		Scalability Option # (All Suppression/Training)		Scalability Option #2 (Engines/Training)	
Option #1: Bridgehill (Single-use) 20+ blankets		\$	175,518.00	\$	144,872.00
Option #2: Darley (Single-use) 20+ blankets		\$	166,005.00	\$	137,020.00
Option #3: Fire Cloak EV blanket (Single-use)		\$	154,350.00	\$	127,400.00

POC	
Dan Brias / Ryan Darley	
Ryan Darley	
Brady Stephens	
#Training	#Total Units/ Agency
4	51
4	32
3	19
3	11
1	3
1	4
1	3
1	3
18	126
Scalability Option #3 (Trucks/Training)	Training equipment costs: 1 Blanket / battalion (HOT)
\$ 55,720.00	\$ 25,074.00
\$ 52,700.00	\$ 23,715.00
\$ 49,000.00	\$ 22,050.00



STANDARD OPERATING PROCEDURES

Electric Vehicle Blanket Draft - June 12, 2023

TBD

Revision Date:
XX/XX/2023

Supersedes:
NEW SOP
Page 1 of 3

PURPOSE

The purpose of procedure is to provide recommendations for the deployment and use of electric vehicle (EV) blankets.

SCOPE

This procedure will apply to all Clark County Fire Department suppression personnel.

RESPONSIBILITY

It will be the responsibility of all fire department members to comply with this SOP when using EV blankets.

POLICY

Response to an electric vehicle fire generally require large volumes of water to cool an EV battery. EVs can be challenging fires to fully extinguish as combustng lithium-ion batteries are self-oxidizing and may smolder for extended periods of time. EV's also do not have a neutral gear like Internal combustion vehicles making the transfer of a vehicle challenging. Use of an EV blanket may contain, but not fully extinguish, fires in passenger sized EVs. Fires of this type that have existing exposures, are in difficult to reach locations, or are not located near a large enough water supply can pose complex response challenges.

PROCEDURES

Deployment of EV blankets is similar to the deployment of fire service salvage covers.

SPECIFIC PROCEDURES

Deployment:

- Use a minimum two (2) fire personnel to deploy the fire blanket.



Figure 1. EV blanket deployment on an Electric vehicle in thermal runaway. Courtesy Stephens Truck Center

- It is preferred to deploy an EV blanket using four (4) fire personnel when possible.



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Page 2 of 3

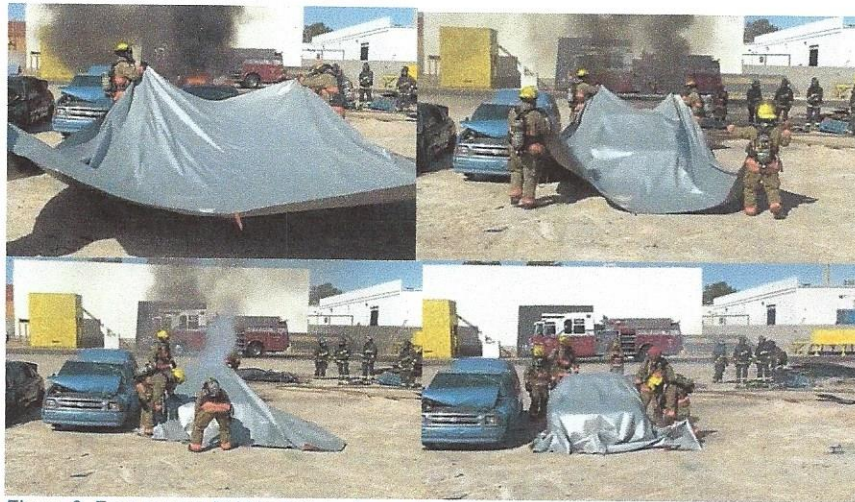


Figure 2. Four person EV blanket deployment

- Always use proper firefighting gear including a breathing apparatus.
- Roll out the fire blanket and center it before it is deployed.
- Both firefighters should first grab each their handle, tighten the fire blanket and then safely pull it over the car in one continuous movement.
- Always center the fire blanket after covering the vehicle.
- Make sure the fire blanket is in contact with the ground. Preferably flat with no openings to prevent air transfer.
- Dragging the blanket over sharp corners will rip the blanket. Consider using a balloon, throw/salvage throw or a four (4) person deployment on vehicles with sharp edges.
- When objects are blocking the way, sometimes the fire blanket needs to be deployed from the side of a vehicle.
- Larger vehicles may require multiple blankets to create an airtight seal. If a vehicle blanket is not completely covered the fire may not be extinguished.
- When deploying a blanket in close proximity to a vehicle fire, use the EV blanket as a barrier between the firefighter and the fuel source (vehicle).

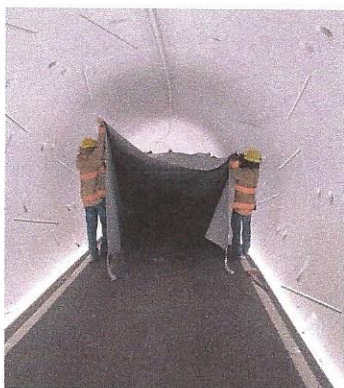


Figure 3. EV blanket deployment with space limitations in the Boring Company's Vegas loop. Note: Training photo shown, always wear Full PPE and SCBA when deploying an EV blanket.

Blanket deployment in windy conditions:



STANDARD OPERATING PROCEDURES

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Page 3 of 3

- It is best to deploy the blanket with wind at your back, using four personnel.
- Consider weighting the blanket or tying a rope around the vehicle at the ground level to stabilize the blanket and ensure air will not flow beneath it.

Duration of Use:

Electric Vehicles

- Fire within an EV battery, known as thermal runaway, produces its own oxygen making it difficult to extinguish. Thermal runaway can continue for up to 48 hours, or more.
- Detect if the thermal runaway has stopped by using a thermal imaging camera.
- After the thermal runaway stops, leave the blanket on for minimum one hour before it is removed.
- We recommend leaving the blanket on when transported on a tow truck. Tie the blanket securely with a rope or a load strap at tire level.
- Use of an EV nozzle can be used in conjunction with an EV blanket to cool an EV battery in thermal runaway.

ATTACHMENTS

None.

REFERENCES

1. *Car fire blanket block protocol* - edarley.com. (n.d.). Retrieved May 1, 2023, from <https://www.edarley.com/media/library/documents/bridgehill/bridgehill-block-protocol-2022.pdf>
2. *Car fire blanket* - padtex. (n.d.). Retrieved May 1, 2023, from https://padtex.lv/wp-content/uploads/2022/04/Padtex-car-blanket_2021.pdf

Brandilyn Baxter

From: Pamela Hatty <HattyP@ClarkCountyNV.gov>
Sent: Monday, June 12, 2023 1:23 PM
To: SERC Email
Cc: Jon Wiercinski; Brian Larsen; bsamuels
Subject: FW: Clark County Fire Department - HMEP Mid Cycle Grant Application for Consideration
Attachments: CCFD SOP EV blanket DRAFT- V3.pdf; EV Blankets info.xlsx; Darley Fire Blankets quote - 5-12-2023.xlsx; Stephens Truck Center LLC.pdf; LN Curtis .pdf; CCFD HMEP Mid Cycle Application.pdf
Importance: High
Categories: Printed

WARNING - This email originated from outside the State of Nevada. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Good Afternoon.

I neglected to include sending to this email and also are next LEPC meeting is scheduled July 11th. We will add this as an agenda item for discussion and possible action.

From: Pamela Hatty
Sent: Monday, June 12, 2023 1:13 PM
To: Brandilyn Baxter <b.baxter@dps.state.nv.us>
Cc: Jon Wiercinski <jwiercin@ClarkCountyNV.gov>; Brian Larsen <Brian.Larsen@ClarkCountyNV.gov>; Billy Samuels <bsamuels@ClarkCountyNV.gov>; Richard Brennar <hazmat24reddog43@gmail.com>
Subject: Clark County Fire Department - HMEP Mid Cycle Grant Application for Consideration
Importance: High

Brandilyn,

I have attached the above-mentioned application along with backup materials for tomorrow's meeting. While we do not have the minutes and signature from our county manager, Richard suggested we submit anyway as it could be approved with contingencies. Could you please confirm it will be on tomorrow's agenda when you have a moment.

Thank you so much, and I apologize for adding to your workload with last minute stuff. Let me know if you have any questions.

Pamela Hatty, Administrative Specialist/Grants Manager

Clark County Fire Department/Office of Emergency Management

Office: 702.455.6183 | E-Mail: hatty@clarkcountynv.gov

M – F 7:30 a.m. – 4:00 p.m.

GRANT APPLICATION CHECK SHEET

LEPC: Clark County

☐ LEPC is in compliance

Grant: HMEP

☒ Received by Due Date

☒ Title Page – math is accurate / signed

☒ Goals completed

☒ Objectives completed

☒ Budgets

☐ If Training – brochure included

☐ If Training – DEM/SFM denial letters included

☐ If Travel – GSA rates included

☒ If Equipment – quotes included

☐ If Radios – communications questionnaire included

☐ Operations – is Clerical requested (check Budget Narrative)

☐ Budget Narrative(s) completed

☒ Certified Assurances completed / signed

☒ LEPC Compliance Certification completed / signed

☒ If HMEP – Activity Request Form completed

☐ If HMEP – Activity Request will need to be approved by HMEP

☐ LEPC meeting minutes approving submittal of grant application

Grant \$ amount: 154,350 Total \$ amount available: _____

Reviewed by: B. Bauer