

621 Woodland Square Loop SE Lacey, WA 98503 PO Box 47250 Olympia, WA 98504-7250 https://www.utc.wa.gov/GCPF

GRADE CROSSING PROTECTIVE FUND

2023 – 2025 GRANT APPLICATION OPEN CALL FOR PROJECTS Received Records Management Oct 26, 2023

The Washington Utilities and Transportation Commission (UTC), through the Grade Crossing Protective Fund (GCPF), provides grants for projects that eliminate or reduce public safety hazards at railroad crossings and along railroad rights-of-way in Washington State. Any public, private, or non-profit entity may apply for a GCPF grant.

To apply for a grant to eliminate or reduce a public safety hazard at a railroad crossing or along a railroad right-of-way, complete the following information and submit it and any attachments to the UTC. (Note: If you are proposing a change to the warning devices at a public railroad crossing, use the <u>Petition to Modify Warning Devices - GCPF</u> application instead.

Please be sure to complete the entire form. Incomplete or missing information will delay the grant review process.

Applicant information Contact Name: Michael R. Lawson Organization: South King Fire Address: 31617 1st Ave S Federal Way, Wa 98003 Phone: 253-632-4246 Email: mike.rlawson@southkingfire.org Project information Attach additional sheets as necessary that provide the following: 1. What is the project location? See supporting document.

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How will drawings	the project eliminate and/or mitigate the hazards listed above? Include any design or construction plans for the proposed project.
	porting document.
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7. Provide a project budget, including:
a. An itemized list of the total costs of the project.
See supporting document.
b. The requested grant amount.
See supporting document.
c. Names of parties contributing financially to the project, including the applicant, and the amount each is contributing.
See supporting document.
8. What is the name of the party responsible for long-term maintenance of the project, such as repart of fencing?
See supporting document.
9. What is the estimated timeline for project completion?
See supporting document.
10. How will the project's success be measured?
See supporting document.

See supporting docume	ent.	
2. List any other information the	nat may be useful in evaluating this	project. Include additional
attachments if needed.		
See supporting docume		
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attachments if needed.		
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If the applicant is not the railroad owning the right-of-way, crossing, or tracks, the applicant must submit the attached Railroad Consent form (page 5) completed and signed by the railroad owning the right-ofway, crossing, or tracks.

Submitting the Application

After completing the application, file the signed application at EFile. Under "Filing Type," select "Application for Funding."

Assistance

For questions or assistance, please contact the following UTC staff:

- Mike Turcott at (360) 664-1119 or mike.turcott@utc.wa.gov
- Tyler Whitcomb at (564) 669-0943 or tyler.whitcomb@utc.wa.gov

Railroad Consent

The undersigned repre	esents the Railroad Company in the accompanying GCPF application.
We have reviewed the applicant in this matte	e application and are satisfied that the conditions are the same as described by the
	Printed name of Railroad Representative
	Signature of Railroad Representative
	Title
	Name of Railroad
	Mailing Address of Railroad
	Telephone Number
	Email
	January 1 2023 Date

Overview

This is a follow up grant request after being awarded in 2022 for the purchase of 1 hazmat drone. We requested 2 drones in 2022. UTC awarded South King Fire for the purchase of 1 drone with the expectation that we would get the drone program up and running and train pilots for the use on hazardous materials incidents. We were invited to submit another grant request in 2023 for the purchase of the 2 drone. I am using the same document from the 2022 request with slight modifications based on the updated grant form. I do not have the addendums that were included in the 2022 request. I'm hoping that information is on file with UTC, so I'm going to keep the reference but not include the addendums.

On behalf of the South King Fire Hazmat Team, I'm submitting a proposal for (1) Hazmat Drone. Hazmat 361 (addendum A) is a special operations team that responds out of Station 61 located at 3203 S 360th Auburn, WA 98001. The team consists of 12 firefighters that are certified Hazmat Technicians with the ability to respond, assess, and mitigate any hazardous materials incidents within the King County Zone 3 area. Hazmat 361 is the first responding hazmat unit for any railroad or rail crossing incident that involves hazardous material spills. Hazmat 361 is also a part of the Zone 3 Hazmat providers group that includes Renton Fire, Port of Seattle Fire, and Puget Sound Regional Fire Authority. Zone 3 Hazmat providers respond to all major hazmat incidents in South King County.

I am applying for the UTC grade crossings grant to increase the response capabilities of our hazmat team. This proposal will increase the ability to quickly assess and mitigate the hazards associated with the railroad crossings in the Auburn valley area. No hazmat team in Zone 3 currently has this capability.

This grant proposal is for the purchase of a 2nd Hazmat Drone.

- King county regional asset based in South King Fire station 61 located at 3203 S. 360th St. Auburn, Wa 98001
- 2. The hazards being addressed with this grant request would be all the hazardous materials that are carried by rail through the Auburn valley. Between BNSF and UP, there are more than 75,000 loads of hazardous materials that are transported through the Auburn valley on a yearly basis. Accidents at grade crossings with private or commercial vehicles have a potential for a rail car derailment that could result in a large scale hazmat incident. I have included a map and list of up to 20 grade crossings in the Auburn valley area (addendum B). I have also included a list of WA Rail Crash Stats (addendum C) that show the potential for future incidents. In the event of a train crash at a rail crossing, it is likely that the surrounding community could be in danger from the hazardous materials spill or the involvement of fire. Timely assessment and evacuation will help mitigate these hazards.

- 3. The proposed project will be to purchase a 2nd drone. The South King Fire Hazmat team have created a drone program for hazardous material responses and train derailments based on the grant funding from UTC in 2022. The first step in responding to train derailment is to find out where and what is involved in the incident. In the event of an accident at a grade crossing, the railcars involved in the derailment could be a long distance away from the actual grade crossing. A drone can be deployed in minutes and sent down range to gather important information including the number of cars involved, access locations or impediments, type of rail cars involved, railcar markings and car number, load limit, empty weight of car, placards, and pressure relief device information. Gathering this much information in short time frame, would be instrumental in eliminating or mitigating the hazard to the public and first responders. Drones can be flown down range in a matter of minutes, rather than suiting up hazmat technicians which can take 30-60 minutes and require additional resources such as backup and decon teams. Distance and access issues could also delay the gathering of important information. If a fire is involved, the thermal imaging camera on the drone can located the seat of the fire, or changes in temperatures within rail cars that can indicate a chemical reaction of the products being transported. The thermal camera can also be used to locate victims or persons in the area that may be in danger. I have included several documents that show the benefits of a drone program and examples of how this program will help mitigate hazards (addendum D, E, F, G, H). The purchase of a second drone will allow a backup drone to be available in the case of a failure. If the battery of the first drone gets low, the second drone can be deployed while the first drone is recharging. At a large incident, both drones could be deployed to cover more area and get video from different viewpoints. The second drone will increase the overall in air time available to gather information.
- 4. The implementation of this proposal will have an immediate impact on the ability of the South King Fire Hazmat Team to mitigate hazardous situations that pose a threat to the life and safety of the surrounding community. With the number of grade crossings in our area and the likelihood of a grade crossing being a contributing factor in potential incidents, it is important to have this unique capability. The ability to obtain critical information in a short amount of time will help mitigate hazards. As a Zone 3 hazmat provider, Hazmat 361 will be a part of any large hazmat responses in the zone. The drone program can be used on a variety of calls anywhere within the zone.
- 5. The project does not involve coordination with the railroad to be put in place. However, we do have a working relationship with the railroad and conduct annual training drills on site at railroad locations.
- 6. This project does support under-resourced communities since South King Fire is the only fire department in Zone 3 with a drone program.

7. I have included in this request packet an updated quote from the same supplier that was used in the 2022 grant award. The price of the same drone has come down. The total for the 2nd drone will be \$10,212.98. This will include: Autel EVO MAX 4T bundle, extra battery, extra propellers, charging system, launch pad, launch pad light.

b. \$10,212.98

c. Michael R. Lawson – Captain mike.rlawson@southkingfire.org 253-632-4246
South King Fire Station 61 3203 S 360th St. Auburn, WA 98001

Kuker Ranken "KR" 21601 66th Ave W, Unit A Mountlake Terrace, WA 98043 425-771-7776

Autel Robotics 22522 29th Dr SE, Ste 101 Bothell, WA 98021 844-692-8835

Federal Aviation Administration 800 Independence Avenue, SW Washington, DC 20591 866-835-5322

The Security and Emergency Response Training Center (SERTC) 55500 DOT Rd. Pueblo, CO 81001

- 8. South King Fire will assume responsibility for long-term maintenance and repairs.
- 9. The core of the project has been completed following the 2022 grant award. The purchase of the 2nd drone will be placed immediately upon being awarded. Delivery should be about 1 month and the drone will be immediately placed into service.
- 10. Success of this project will be demonstrated by creating a policy, training, and FAA certification. Hazmat 361 participates in Zone 3 hazmat drills on a weekly basis as well as mission specific quarterly drills such as the most recent drill at the Auburn railyard with BNSF (addendum M). Success will be demonstrated

during drills by deploying drones and obtaining critical information for the incident commander. This will show that the drone program is ready and available to help mitigate hazards to the public and emergency response personnel. South King Fire has FAA certified Part 107 pilots, and our current drone is in service.

- 11. South King Fire has managed numerous grants, both local, state and federal. The hazmat team was award 2 grants from UTC in 2022 (1st drone, and separate award for weather station that works in support of the drone program as well as all hazmat operations). The hazmat team is also a participant in the Safer Cities grant through Seattle Police/Fire.
- 12. Any additional information or addendums should be able to be found within the 2022 grant request. Please let me know if any more information is needed.



21601 - 66th Ave W, Unit A Mountlake Terrace, WA 98043, USA Tel: 425-771-7776 | Fx: 425-774-7538

Since 1928

Quotation

Date	Number				
10/16/23					

SO-500305

Bill To:

SOUTH KING FIRE & RESCUE 35100 PACIFIC HWY SOUTH FEDERAL WAY, WA 98003, USA

Ship To:

SOUTH KING FIRE & RESCUE 35100 PACIFIC HWY SOUTH FEDERAL WAY, WA 98003, USA

Ent. by:	Sales Rep.:	Picked by:	Packed by:	No. of Parcels:	Weight:	Page No.:
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Cust. Acct. No. Customer P.O. No.		Order Date	Ship Date	F.O.B. Point	Ship Via	Ter	ms			
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Ordered	Shipped	Back Ordered	Unit	LOC	Serial Number	Catalo	g No. / Description		Unit Price	Extension
1.00	1.00	-	ea		HAR923207122	102001823 AUTEL EVO MAX 4T BUNDLE			8,999.00	8,999.00
3.00	3.00	-	ea			102001961 AUTEL EVO MAX BATTERY			319.00	957.00
2.00	2.00	-	ea			102002080 AUTEL EVO MAX PROPELLERS (1 PAIR)			19.00	38.00
1.00	1.00	-	ea			102002081 AUTEL EVO MAX SINGLE CHARGE+CABLE			79.00	79.00
1.00	1.00	-	ea			HDLP HOODMAN LAUNCH PAD 5'			119.99	119.99
1.00	1.00	-	ea			HULTKIT HOODMAN 3' & 5' LAUNCH PAD LIGHT KIT			19.99	19.99
	SUBTOTAL SHIPPING TAX			TAX	Т	OTAL				
						10,212.98	0.00		0.00	10,212.98

KR - Seattle Branch

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KR - Tacoma Branch

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KR - Portland Branch

308 SE Taylor Street Portland, OR 97214 Ph 503-641-3388 Fx 503-964-5535 Toll Free 800-472-7007

KR - Salt Lake City Branch

2712 S 3600 W, Suite D&E West Valley City, UT 84118 Ph 801-878-9763 Fx 801-996-8193 Toll Free 801-878-9763

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