

---

**MEETING TYPE:** Regular Council Meeting  
**MEETING DATE:** September 3, 2024  
**AUTHOR:** Darren Lee, Fire Chief  
**DEPARTMENT:** Protective Services  
**ITEM TITLE:** 2024 UBCM-CEPF Grant for Thermal Imaging Camera Renewal Replacements  
**DESCRIPTION:** Application to support the 2025 thermal imaging camera renewal and replacement costs

---

**PURPOSE**

Does Council wish staff to make application to the 2024 UBCM-CEPF (Community Emergency Preparedness Fund) Grant under the Volunteer and Composite Fire Department Training and Equipment stream for \$40,000 to provide financial support to the planned renewal and replacement of thermal imaging cameras in the 2025 Financial Plan.

**RECOMMENDATION**

THAT a grant application to the 2024 UBCM-CEPF Volunteer and Composite Fire Departments Equipment and Training stream in the amount of \$40,000 to provide fund to the 2025 renewal and replacement of thermal imaging cameras be supported;  
AND THAT the District of Lake Country provide overall grant management.

**EXECUTIVE SUMMARY**

The intent of UBCM-CEPF Volunteer and Composite Fire Department Training and Equipment stream is to build the resiliency of volunteer and composite fire departments in preparing for and responding to emergencies through the purchase of new or replacement equipment and to facilitate the delivery of training.

[Volunteer and Composite Fire Departments Equipment and Training | Union of BC Municipalities \(ubcm.ca\)](https://www.ubcm.ca)

In 2022 the District of Lake Country was awarded the maximum allowable grant of \$30,000 from the UBCM-CEPF which provided financial support for portable radio renewal and replacement in the 2023 District of Lake Country Financial Plan. In 2023 the District of Lake Country was awarded the maximum allowable grant of \$30,000 from the UBCM-CEPF which provided financial support for personal protective equipment renewal and replacement in the 2024 District of Lake Country Financial Plan.

With Councils support, staff will apply to the 2024 UBCM-CEPF for the revised maximum amount of \$40,000 to support the planned renewal and replacement of thermal imaging cameras in the 2025 District of Lake Country Financial Plan. The application will articulate the need for the District of Lake Country to maintain firefighting capacity while servicing one of the fastest growing communities in British Columbia.

Thermal imaging cameras (TIC or TIC's) provide firefighters a tool that allows them to see through the zero visibility conditions that develop in structure fires. In the hands of a trained user, a TIC can improve firefighter safety, expedite search and rescue of trapped occupants and improve the effectiveness of fire attack.

TIC's are ruggedized for firefighting operations but their electronic components are exposed to extreme impacts and extreme heat during training and emergency response. As their electronic components age, they become more susceptible to electronic component failure while their rechargeable battery efficiency declines.



The images show a third generation TIC (10 years+) on the left and a new fifth generation TIC (new) on the right.

### DISCUSSION/ANALYSIS

The renewal and replacement of TIC's is included in the '25-Year Lake Country Fire Department Fleet and Equipment Plan' which was received by Council prior to the 2023 budget process. This plan allows staff to identify long-term fire apparatus and fire equipment needs and provide Council a fully informed financial plan year over year.

With Council's support, staff will apply to the 2024 UBCM-CEPF for the revised maximum of \$40,000 to support the planned renewal and replacement of thermal imaging cameras in the 2025 District of Lake Country Financial Plan.

If the full \$40,000 is awarded to the District of Lake Country from the 2024 UBCM-CEPF, the total contribution from District of Lake Country capital reserves could be reduced from approximately \$75,000 to approximately \$35,000. If the full \$40,000 is not awarded to the District of Lake Country from the 2024 UBCM-CEPF, staff will use the results of the submission to inform the capital request for thermal imaging camera renewal and replacement in the 2025 District of Lake Country Financial Plan.

### APPLICABLE LEGISLATION, BYLAWS AND POLICY

Council governs the delivery of fire services through the [BC Community Charter Act](#), the [BC Fire Services Act](#) and the [BC Fire Commissioner Provincial Structure Firefighter Minimum Training Standard](#) which was formally known as the BC Fire Commissioner 'Playbook' on Firefighter Training Competencies.

Council establishes fire department service areas and levels of service through several bylaws which includes but is not limited to [Fire Department Bylaw 757, 2010 CONSOLIDATED 2016-08-16](#). Page 4, Paragraph 7 of Bylaw 757 defines the current levels of service provided by the fire department to the District of Lake Country as:

7. *The Fire Department is authorized to provide the following services:*
  - a. *All aspects of fire protection, prevention and related activities under the direction of the Fire Chief;*
  - b. *the rescue of persons and response to hazardous or dangerous situations and disasters; and*
  - c. *the response to a medical emergency.*
  - d. *for fire suppression activities, a Full Service Level in accordance with the Playbook.*

The declaration of 'Full Service' provides the regulatory framework for fire department operations. Full Service includes a range of services which includes interior structural firefighting operations. TIC's are a critical tool for firefighters who engage in these activities.

## **IMPACT ON INFRASTRUCTURE, SERVICES AND STAFF CAPACITY**

The LCFD strives to meet National Fire Protection Association standards and other applicable industry safety standards when delivering emergency and non-emergency services to the District of Lake Country. The most relevant standards are NFPA 1810 (2021) Standard on Thermal Imagers for the Fire Services which establish design criteria and use limitations:

### [NFPA 1810 \(2021\) Standard on Thermal Imagers for the Fire Service](#)

To ensure compliance with WorkSafe BC Regulations and to meet other applicable industry standards, the LCFD needs to supply its firefighters with appropriate personal protective equipment, firefighting tools and firefighting training to protect them from the broad range of hazards that they will be exposed to during structural firefighting operations. WorkSafe BC Part 31: Firefighting and WorkSafe BC Part 32: Evacuation and Rescue are the two most applicable areas of WorkSafe BC Regulations:

### [WorkSafeBC Part 31: Firefighting](#)

### [WorkSafe BC Part 32 Evacuation and Rescue](#)

Renewal and replacement of TIC's in the 2025 Financial Plan will help the District of Lake Country maintain firefighting capacity while continuing to service one of the fastest growing communities in British Columbia.

## **FINANCIAL IMPLICATIONS**

None                       Budget Previously Approved     Other (see below)

The renewal and replacement of TIC's is included in the '25-Year Lake Country Fire Department Fleet and Equipment Plan' which was received by Council prior to the 2023 budget process. With Council's support, staff will apply to the 2024 UBCM-CEPF for the revised maximum of \$40,000 to support the planned renewal and replacement of thermal imaging cameras in the 2025 District of Lake Country Financial Plan.

If the full \$40,000 is awarded to the District of Lake Country from the 2024 UBCM-CEPF, the total contribution from District of Lake Country capital reserves could be reduced from approximately \$75,000 to approximately \$35,000. If the full \$40,000 is not awarded to the District of Lake Country from the 2024 UBCM-CEPF, staff will use the results of the submission to inform the capital request for thermal imaging camera renewal and replacement in the 2025 District of Lake Country Financial Plan.

## **CONSULTATION (Internal referrals, External Agencies, Committees, Stakeholders)**

District of Lake Country staff will be required to consult with staff from the UBCM responsible for the administration of the 2024 UBCM-CEPF Volunteer and Composite Fire Department Training and Equipment stream. No other formal consultation is anticipated for this grant application.

## **COMMUNICATIONS (if applicable)**

If successful, the results of the submission to the 2024 UBCM-CEPF would be announced by the UBCM in coordination with the District of Lake Country. A capital request for the renewal and replacement of TIC's will be included in the 2025 District of Lake Country Financial Plan. No other formal communication is anticipated for this grant application.

## **ALIGNMENT WITH COUNCIL STRATEGIC PRIORITIES**

- Create and Support Opportunities for a Healthy, Active and Inclusive Community
- Create Infrastructure That Meets Community Needs
- Encourage Growth of the Downtown Core
- Ensure Sustainable Water Service Delivery for the Community
- Explore Opportunities to Engage With Regional Local Governments for the Betterment of the Community
- Honour Reconciliation by Strengthening Relationships and Inclusiveness With Our Indigenous Partners
- Identify and support improvements to the Development Process

- 
- Implement the Agricultural Plan
  - Preserve, Protect and Enhance Our Natural Environment
  - Secure long term wastewater service delivery for our community
  - Support Opportunities to Diversify Lake Country's Tax Base

**ALIGNMENT WITH MASTER PLANS**

- |  |  |
|--|--|
| <input type="checkbox"/> Agricultural Plan                             | <input checked="" type="checkbox"/> Official Community Plan                |
| <input type="checkbox"/> Climate Action Charter                        | <input type="checkbox"/> Parks & Recreation Master Plan 2019               |
| <input type="checkbox"/> Housing Needs Report                          | <input type="checkbox"/> Sanitary Sewer System Map                         |
| <input type="checkbox"/> Liquid Waste Management Plan Stage 1/2 Report | <input type="checkbox"/> Transit Future Plan-Central Okanagan Region-DRAFT |
| <input type="checkbox"/> McCoubrey Plateau Area Structure Plan         | <input type="checkbox"/> Transportation for Tomorrow                       |
| <input type="checkbox"/> Mobility Master Plan                          | <input type="checkbox"/> Water Master Plan                                 |

**OPTIONS**

- A. THAT staff be directed to make application to the 2024 UBCM-CEPF Grant under the Volunteer and Composite Fire Department Training and Equipment stream for \$40,000 to provide financial support the planned renewal and replacement of thermal imaging cameras in the 2025 District of Lake Country Financial Plan; AND THAT the District of Lake Country provide overall grant management.
- B. THAT Council does not receive this report; AND THAT Council direct staff to provide a follow-up report, with additional information for an application to the 2024 UBCM-CEPF Grant under the Volunteer and Composite Fire Department Training and Equipment stream.

Respectfully Submitted,  
Darren Lee, Fire Chief

**ATTACHMENTS**

---

**Report Approval Details**

Document Title:	2024 UBCM-CEPF Grant for Thermal Imaging Camera Renewal and Replacement.docx
Attachments:	
Final Approval Date:	Aug 22, 2024

This report and all of its attachments were approved and signed as outlined below:

**Reyna Seabrook, Director of Corporate Services - Aug 21, 2024 - 3:14 PM**

**Paul Gipps, Chief Administrative Officer - Aug 22, 2024 - 10:14 AM**