



SUBJECT: Single source report – Smeal aerial truck

TO: Environment, Infrastructure & Community Services Cttee.

FROM: Fire Department

Report Number: BFD 03-21

Wards Affected: All

File Numbers: 755

Date to Committee: July 8, 2021

Date to Council: July 13, 2021

Recommendation:

Approve the City of Burlington to single source the purchase of one 2022 SMEAL/SPARTAN 105 ft aerial fire apparatus to Safetek Emergency Vehicles Ltd., 30686-A Matsqui Place, Abbotsford, British Columbia V2T 6L4., at a purchase price of \$1,189,716 USD (excluding DUTY and HST). Safetek is the dealer for Canada who has exclusive rights to sell Smeal fire apparatus. As a result, the vehicle is being quoted in USD thereby allowing the City to secure the required USD funds at a more competitive rate over 360 build days. Payment is due on delivery.

PURPOSE:

In order to comply with Procurement By-law 19-2014, Section 14.8, Council approval is required for single source purchases with a value of \$100,000 or more. The purpose of this report is to seek approval to proceed with this purchase agreement for one 2022 SMEAL/SPARTAN 105 ft aerial fire apparatus.

Vision to Focus Alignment:

- Support sustainable infrastructure and a resilient environment
 - Deliver customer centric services with a focus on efficiency and technology transformation.
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Background and Discussion:

The City of Burlington has been doing business with SAFETEK for over twenty years and they have always provided exceptional support to the fire department. SAFETEK is the national distributor for both the SPARTAN fire apparatus chassis and the SMEAL aerial device. They are a Canadian corporation based out of Abbotsford, BC and operate offices across Canada. Due to their size, SAFETEK is well positioned to support our operations post sales via 24/7 support, training and fast part delivery due to their ability to maintain a large inventory in Canada.

The core reason for the single source request is based on the need to standardize the aerial ladder technologies for all our aerial fire apparatus. The 105 SMEAL aerial ladder device is a proven design, has exceptional performance characteristics and remains relatively unchanged over the past 40 years. SMEAL has been manufacturing fire aerial devices since 1964 and has built a variety of ladders and towers ranging from 55 to 125 feet in height.

All our existing SMEAL aerial ladder devices have proven to be highly reliable, provide a consistent feel and function to maximize safety and minimize training demands on staff. Additionally, our mechanical staff are all currently factory trained to maintain the SMEAL aerial devices so that they operate flawlessly when put into service at an active fire incident.

Beyond their proven performance and reliability, SMEAL is the only aerial manufacturer to provide an electronic positional waterway that allows for the master stream to be re-positioned from the turntable via a simple one-step procedure. This ensures the safe conversion of the aerial device from water tower to rescue mode with minimal demands on staffing resources.

On April 8, 2008, a 24-year old male volunteer Deputy Fire Chief (the victim, serving as the Incident Commander), was killed when struck by a motorized water monitor and 30 feet of aluminum pipe that was “launched” from an elevated aerial ladder at an industrial fire in Pennsylvania. The SMEAL aerial ladder incorporates a linear actuator to change positioning thus eliminating the concern of a pin not being placed in the correct location.

By standardizing with a pinnable waterway, we have the option of locking the waterway at the tip (desirable for master stream operations) or one section down, allowing the fly section to operate clear of the master stream appliance (desirable for rescue situations). On other manufacturers trucks, this has to be done manually and required the operator to leave the turntable. With this technology, the positional waterway with an electric actuator, enables BFD operators to locate the waterway at the tip or base section without leaving the turntable control console or manually moving a pin.

In addition to the speed of getting a pre-piped waterway in operation, the remote-control feature enables the apparatus operator at the turntable or pump panel to operate the

stream while in a position of relative safety. A firefighter does not have to climb the ladder to direct the master stream. This is a significant safety enhancement that prevents the needless exposure of a firefighter to heavy smoke conditions or airborne hazardous materials.

Lastly, SMEAL provides an ergonomic hose loader that places the large diameter supply hose bed within a firefighter's reach from the ground, thereby eliminating the need to climb up on the apparatus. This improves firefighter safety by reducing the chances of strains, slips and falls and allows for faster return to service.

Strategy/process

The core reason for the single source request is based on the desire to standardize on SMEAL aerial ladder technologies for all our aerial fire apparatus.

Options Considered

N/A

Financial Matters:

The total cost of this aerial truck is \$1,189,716 USD (excluding DUTY and HST) and falls within the budget allotted for the replacement of the existing aerial fire apparatus. It will be funded from Capital Order VR0119 financed by the Fire Vehicle Depreciation Reserve Fund (VDRF).

Total Financial Impact

N/A

Source of Funding

Capital Budget Fire Vehicle Reserve Fund

Other Resource Impacts

N/A

Climate Implications

The vehicle will be ordered with idle limiting technology to control the engine and reduce the use of fossil fuels in operations.

Engagement Matters:

N/A

Conclusion:

The Burlington Fire Department in consultation with Procurement Services recommend that Council approve the single source purchase of a 2022 SMEAL/SPARTAN 105 ft aerial fire apparatus be single sourced to SAFETEK Emergency Vehicles Ltd. 30686-A Matsqui Place, Abbotsford, British Columbia V2T 6L4, at a price of \$1,189,716 USD (excluding DUTY and HST).

Respectfully submitted,

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Report Approval:

All reports are reviewed and/or approved by Department Director, the Chief Financial Officer and the Executive Director of Legal Services & Corporation Counsel.