

NO: **R100**

COUNCIL DATE: **JUNE 9, 2014**

REGULAR COUNCIL

TO: **Mayor & Council**

DATE: **June 9, 2014**

FROM: **Fire Chief**

FILE: **1280-01**

SUBJECT: **Fire Apparatus Purchase – Water Tanker equipped with a Water Purification System**

RECOMMENDATION

The Fire Services Department recommends that Council approve the award of a contract in the amount of \$1,297,773.10, including applicable taxes, to Safetek Emergency Vehicles Ltd. for the supply of three (3) 2000 IMP GAL Tanker Truck(s) equipped with a Water Purification System.

BACKGROUND

The new Tanker Trucks will facilitate the decommissioning of 3, two person, smaller capacity, Tanker Trucks purchased in the late 1980's and early 1990's, which are at the end of their useful lives, and in need of major cab and fire body overhaul.

Tanker Trucks are used to shuttle water during a fire in no fire hydrant districts. In 2009, the City of Surrey received an improved grading for fire protection services and was awarded Superior Tanker Shuttle Accreditation from Fire Underwriter Survey (FUS). This equates to a "hydrant protected equivalency status, resulting in these areas being rated as fully protected. This accreditation was based on the Surrey Fire Service having a minimum of (5) Tanker Trucks in its fleet, with each tanker having water shuttle capability and a minimum 1500 gallon capacity. FUS provides data on public fire protection for insurance and underwriting purposes on behalf of the member companies of the Insurance Bureau of Canada, therefore, this improved grading allowed for a reduction in insurance premiums for approximately 2100 owners of commercial and residential properties in no fire hydrant districts.

The new Tanker Trucks will incorporate a quick deployable four-stage fire apparatus integrated water purification system. It utilizes the fire pump to feed the water purification unit. This unit equips sediment filters, carbon filters, UV and ozone devices to remove toxic substances from contaminated water. Key components of this unit are National Science Foundation certified, which guarantee the best purification ability and safety to human health. Each truck has the capabilities of supplying 12,000 gallons per day of quality drinking water.

A Surrey Water System Seismic Vulnerability Study completed in October 1999 indicated that all GVRD major water supply lines are vulnerable to seismic damage where they cross the Fraser River. City Engineering will have an updated study completed by 2015 which will reflect the construction of a new water tunnel by GVRD, just west of the Port Mann Bridge. This new water

main crossing, scheduled for completion in 2017, is designed to resist a major earthquake event, and any major scouring of the Fraser River, which would greatly improve the security of water supply to Surrey. This new water main crossing will also provide larger capacity for future growth and increased water demand in Surrey.

Currently, one local water well and one waterconnection (normally closed) with Blaine Washington are the only sources of water available to Surrey if the GVRD supply from North of the Fraser River is cut off. The capacity to filter water to a potable state utilizing this tanker water purification system will enhance the City's capacity to provide potable water to residents during such a major event.

These new Tankers are capable of deploying a full crew of 4 firefighters to provide immediate intervention at any emergency incident requiring medical or a fire ground-related emergency. They are equipped with 5678 LPM fire pump, two 2.5" discharges, one 4" discharge and three pre-connect attack lines, a compliment of hose and ladders and medical equipment.

TENDER RESULTS

With a view to acquiring the new apparatus, a request for quotations (RFQ) numbered RFQ# 1220-040-2014-037 was issued by the City for the supply of "2000 IMP GAL Tanker Truck(s) equipped with Water Purification System".

The following price quote was received in response to the RFQ:

<i>Contractor</i>	<i>Tendered Amount with GST</i>	<i>Corrected Amount</i>
• Safetek Emergency Vehicles Ltd	\$1,297,773.10	Nil

EVALUATION

The City's Purchasing Department reviewed the tender for accuracy and completeness.

The quotation from Safetek Emergency Vehicles Ltd fully met the City's specifications as stipulated in the RFQ documents and was the only quotation received. This is probably a reflection of being a highly specialized vehicle coupled with the addition of a unique water purification system. The Tender Truck and water purification system is the first of its kind in Canada. The City's previous experience with Safetek has been satisfactory with that firm providing excellent product quality as evidenced by previous City purchases.

The General Manager of Finance & Technology has reviewed the process and quotes and is satisfied with the procurement process and the recommendation. Funding for the purchase of three (3) Tanker Trucks is available within the 2014 capital budget. Subject to Council approval of the recommendation of this report, it is expected that the new fire apparatus will be delivered 260 – 320 days upon receipt of purchase order.

SUSTAINABILITY CONSIDERATIONS

The recommendations of this report will assist in achieving the objectives of the Sustainability Charter under the following specific elements:

SC14: Support Food Security: by supplying mobile safe drinking water dispensing to the communities in the case of a disaster or drinking water contamination.

EN3: Vehicle Fleet Programs: by developing a vehicle and equipment procurement policy that includes as one of its decision criteria the “carbon footprint” of the equipment. The decommissioning of the three older Tankers with mechanical fuel injection and no emission treatments will lower GHG emissions, which reduces the carbon footprint of Fire Department equipment and is an action on procurement.

The purchase supports the 2010 Corporate Emissions Action Plan.

CONCLUSION

The Fire Services Department recommends that Council approve the award of a contract in the amount of \$1,297,773.10, including applicable taxes, to Safetek Emergency Vehicles Ltd. for the supply of three (3) 2000 IMP GAL Tanker Truck(s) equipped with a Water Purification System.

A handwritten signature in black ink that reads "Len Garis". The signature is written in a cursive, flowing style.

Len Garis
Fire Chief