

TORONTO TRANSIT COMMISSION REPORT NO.

MEETING DATE: June 24, 2014

SUBJECT: PROCUREMENT AUTHORIZATION AMENDMENT
WILSON CARHOUSE NORTH EXPANSION
CONTRACT C1-38

ACTION ITEM

RECOMMENDATION

It is recommended that the Board authorize Contract Change No. 14 for Contract C1-38, Wilson Carhouse North Expansion with Buttcon Limited in the upset limit amount of \$3,850,601.48 (inclusive of all applicable taxes) to provide a new subway train dust collector for the Wilson Carhouse.

FUNDING

Sufficient funds for this expenditure are included in Project 3.9 - Toronto Rocket/T1 Rail Yard Accommodation under the State of Good Repair/Safety Category as referenced on pages 563 to 568 of the TTC's 2014-2023 Capital Budget which was approved by City of Toronto Council on January 29/30, 2014.

BACKGROUND

The new Toronto Rocket (TR) trains are fixed six car trains as opposed to the previous fleet of married two car trains. To ensure proper maintenance of TR trains, the Wilson Carhouse North Expansion includes an extension on the north side of the building to allow the carhouse to house the six car consists within the building. The Wilson Carhouse North Expansion includes modifications of the building to facilitate maintenance to the TR trains including installation of a six car train hoist, new traction power pendent system, and extension of repair and inspection pits. The Undercar Blowdown pit is one of the components being modified and extended as part of the work in order to accommodate the blowdown operation for a six car consist. This Undercar Blowdown operation involves cleaning the train's undercar components including motor and electrical component casings and facilitates inspections of the undercar carriage. The Undercar Blowdown system is currently connected to an existing dust collector unit that is over 25 years old and has exceeded its service life. This unit has been recommended to be replaced due to the expected increased demands of the blowdown operations and due to the inefficiencies and extensive maintenance requirements of the current unit.

The dust collector was not part of the original contract requirements because funding was not secured at the time the contract was issued for bid. Several options and their impacts have been previously evaluated by staff, regarding the implementation of the new dust collector. The option

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of including this work as part of the existing contract was recommended by staff to be the best option in delivering the new dust collector because it resulted in the lowest expected total schedule duration and cost for the dust collector and does not include any throwaway or remobilization costs. Also, it would allow for the new dust collector to be completed with all corresponding ductwork, power and supporting structures and commissioned as part of the North Carhouse Expansion contract. This will eliminate the need for any future disruptions and shutdowns to blowdown operations of the TR fleet. Pricing was received to undertake this work as Contract Change No. 14 from Buttcon Limited (Buttcon) in the amount of \$3,850,601.48 which was evaluated by staff and determined to be reasonable.

At its March 27, 2013 meeting, the Board approved the recommendation to award Contract C1-38 for the Wilson Carhouse North Expansion to Buttcon.

Contract C1-38 details are as follows:

Original Contract Amount:	\$37,700,190.00
Value of Approved Changes	<u>4,766,846.52</u>
Subtotal	\$42,467,036.52
Upset Limit Amount of this Change	<u>3,850,601.48</u>
Total Revised Amount	\$46,317,638.00

To date there have been no expenditures beyond the previously authorized \$42,467,036.52.

DISCUSSION

The construction of the proposed dust collector as a Contract Change will allow for the work to be integrated with the Carhouse expansion work and allow the work to be completed concurrently within scheduled operational shutdowns of the blowdown pit. If the dust collector work is not completed at the same time as the blowdown pit modifications, a future six month shutdown will be required of the undercar blowdown operation in order to modify the carhouse structure, construct the exhaust and power run to the new dust collector and commission the unit. Further, there would be throwaway costs of refurbishing the existing dust collector as well as the demolition of newly constructed structures (precast walls, drainage, and foundations) that would need to be modified to accommodate the new dust collector after the fact. Construction of the dust collector as a Contract Change would allow the new dust collector to be commissioned at the same time as the other maintenance components related to the North Carhouse Expansion and allow for an efficient Undercar Blowdown operation that meets the maintenance requirements of the TR fleet.

JUSTIFICATION

Approval of this contract change will provide for a new dust collector to be completed as part of the Wilson Carhouse North Expansion and will meet the needs for the entire Toronto Rocket fleet.

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