

TORONTO TRANSIT COMMISSION REPORT NO.

MEETING DATE: July 9, 2009

SUBJECT: ADDITIONAL FUNDING APPROVAL REQUEST
CENTRAL SIGNALLING SYSTEM (CSS) WORKSTATIONS
PROCUREMENT AUTHORIZATION – CSS MODIFICATIONS
WEB BASED SERVER APPLICATIONS

ACTION ITEM

RECOMMENDATION

It is recommended that the Commission authorize:

1. an increase of \$493,000.00 in funding for the Central Signalling System (CSS) Workstations project;
2. a total expenditure up to \$1,203,889.60 (CAD) for CSS Modifications Web Based Server Applications as more particularly set out in paragraphs (a) – (c) below;
 - (a) the award of contract to Alstom Transportation Information and Security Inc. in the amount of \$1,180,889.60 (CAD), inclusive of GST, for a Contract for CSS Modifications Web Based Server Applications (Proposal No. P31PV09719);
 - (b) the expenditure of funds up to an amount of \$3,000.00 (CAD) for freight and brokerage fees associated with the supply of the web based server equipment for the CSS Modifications; and
 - (c) the expenditure of funds up to the amount of \$20,000.00 (CAD) for Provincial Sales Tax (Self-Assessed) related to the CSS Modifications Web Based Server Applications.

FUNDING

Funds in the amount of \$1.062 million were included under Program 2.3 – Communications, in the CSS Workstations project, as set out on pages 413 to 416 – State of Good Repair/Safety Category of the TTC 2009 – 2013 Capital Program as approved by City of Toronto Council on December 10, 2008. However, additional funds are required to accommodate the higher than expected quotation. Sufficient funds are available within the overall 2.3 Communications Program to accommodate this additional amount.

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BACKGROUND

The approved budget for this project was prepared based on the best information available in May 2008, of project design and costs. This information was based upon a preliminary proposal and quotation from the original CSS equipment and software supplier (Alstom) for software and hardware to provide for web based read only access to the CSS logged data files. Additionally, the project requires TTC added work including engineering, installation, additional workstations and cabling. Following a review of the preliminary proposal from Alstom, staff prepared detailed specifications, updated the requirements and requested a revised proposal based on the new and additional requirements. The new proposal price results in a need for \$493,000 of additional overall project funding.

DISCUSSION

The software and hardware contract provides for the design and supply of two new Train Management System (TMS) application servers and three (3) workstations. The Web-based Server System (WBSS) will not limit the number of playback users, and the servers will be configured for redundant operation. The work includes provision of all required software for the servers including applications and new Operating System Software (OSS) and configurations; provision for future addition of additional workstations; provision of operating and maintenance training and related operation and maintenance manuals; and provision of on-site support to TTC personnel following system commissioning and operation. This project will utilize the corporate network to access the CSS logged data files in a read-only manner, rather than extending the CSS private network to numerous facilities by means of additional workstations, cabling and software. Use of the corporate network greatly simplifies the implementation of CSS data access and avoids the additional costs and complexity of extending the CSS private network.

Specifications and drawings were prepared and a Request for Proposal was issued to Alstom Signaling Inc. on February 5, 2009 on a single source basis as they were the original equipment manufacturer and the only company able to modify the system. The closing date of the proposal was March 20, 2009.

Staff conducted teleconference calls with Alstom to review Alstom's Proposal with respect to pricing, schedule and technical items. Responses and clarifications provided by Alstom were found satisfactory by Staff.

Alstom's Proposal Price is subject to foreign exchange rate adjustment based on US rates stated in the Proposal. Alstom is not licensed to collect Ontario Provincial Sales Tax which will be self-assessed and paid by TTC. The Commission is responsible for arrangement of

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freight and Customs clearance and payment of brokerage fees. Alstom's proposal is valid for acceptance until July 18, 2009. Their proposal submission is considered acceptable.

Alstom had satisfactorily completed the installation of the existing CSS system and is satisfactorily maintaining this system under a maintenance agreement.

Alstom will be required to provide a contract security in the form of an Irrevocable Letter of Credit in the amount of 50% of the contract value.

JUSTIFICATION

Without sufficient funding, the Central Signalling System (CSS) Workstations project will not proceed. This will impact signal maintenance, engineering investigation of signal violation incidents and safety department's investigation of them. Approval will permit any authorized user to access CSS data from any corporate workstation. Access to this data will improve maintenance of the signal system and diagnosis of subway train incidents.

June 23, 2009
6-76-184