

**Metropolitan Transportation Commission  
Operations Committee**

June 12, 2020

Agenda Item 4h

**Next Generation Clipper® Contract Change Order – Computer Aided Dispatch and Automated Vehicle Location (CAD/AVL) Integration Implementation: Cubic Transportation Systems, Inc. (Cubic) (\$1,800,000)**

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**Subject:** Request for approval of a Change Order for integration of Next Generation Clipper onboard equipment with CAD/AVL systems.

**Background:** The Next Generation Clipper® System Integrator Contract between MTC and Cubic provides for an integration between existing transit operator onboard Computer-Aided Dispatch/Automatic Vehicle Location (CAD/AVL) systems and the Next Generation Clipper System.

In November and December 2019, MTC, transit operator staff, Cubic, and CAD/AVL vendors met in a series of workshops intended to streamline and optimize the integration of next generation Clipper equipment with existing on-board bus equipment. The workshops resulted in an approach that integrates Clipper equipment and CAD/AVL systems. This approach would require less equipment to purchase and maintain, would eliminate excess equipment in the front of the bus, and would allow Next Generation Clipper card reader equipment to seamlessly communicate and receive information from existing onboard systems. Onboard integration also supports bus operators by providing single log-on with existing CAD/AVL equipment to correctly identify routes, calculate fares and transfers, and collect additional trip information.

The proposed change order would provide for the development of the CAD/AVL integration, as well as testing and support for operators and their respective CAD/AVL vendors. Cubic has indicated that if work begins this summer, there would be no discernible impacts to the guaranteed completion dates in the Next Generation Clipper System Integrator contract.

Staff anticipates that the change order costs would be more than offset by savings to the Clipper capital budget from a reduction in equipment needed, if this proposed change order is approved.


Cubic is neither a small business nor a disadvantaged business enterprise and has no subcontractors.

The Clipper Executive Board approved the proposed change order at its May 11, 2020 meeting.

**Issues:** None.

**Recommendation:** Staff recommends that the Operations Committee authorize the Executive Director or designee to negotiate and enter into a Contract Change Order with Cubic in an amount not to exceed \$1,800,000 for CAD/AVL integration as described above.

**Attachments:** None.

  
Therese W. McMillan

## REQUEST FOR OPERATIONS COMMITTEE APPROVAL

### Summary of Proposed Contract Change Order

Work Item No.: 310-2780

Contractor: Cubic Transportation Systems, Inc.  
San Diego, CA

Work Project Title: Next Generation Clipper® CAD/AVL Integration  
Implementation

Purpose of Project: Provide integration and support of CAD/AVL systems  
with Next Generation Clipper®

Brief Scope of Work: To develop and implement CAD/AVL integration  
solutions as well as provide testing and support for  
transit operators and their CAD/AVL vendors

Project Cost Not to Exceed: \$1,800,000

Funding Source: FTA, FHWA, OBAG2, STP, CMAQ, STA, STP Exchange,  
Regional Measure 2 Capital and Regional Measure 2  
Operating, Regional Measure 3, SB1 State of Good Repair

Fiscal Impact: Funding is subject to the approval of the FY 2020-21 MTC  
agency budget.

Motion by Committee: That the Executive Director or designee is authorized to  
negotiate and enter into a contract change order with Cubic  
Transportation Systems, Inc., for the purpose described above  
and in the Operations Committee Summary Sheet dated June  
12, 2020, and the Chief Financial Officer is authorized to set  
aside \$1,800,000 for such contract change order, subject to  
the approval of the FY 2020-21 MTC budget.

Operations Committee:

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Dave Cortese, Chair

Approved: Date: June 12, 2020