SUMMARY STATEMENT

ITEM NO.: PATCO-14-036  SUBJECT: PATCO Upgrade to Automated Fare Collection System Central Computer Systems

COMMITTEE: Operations and Maintenance

COMMITTEE MEETING DATE: September 3, 2014

BOARD ACTION DATE: September 18, 2014

PROPOSAL: That the Board authorizes staff to negotiate a contract with Cubic Transportation Systems, Inc. to upgrade the Automated Fare Collection System by updating the Nextfare Central System and Cubic Payment Application Software along with installing new device monitoring and reporting software.

Amount: $2,199,828.00

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

PURPOSE: The purpose is to perform a comprehensive update of the Automated Fare Collection System by contracting with Cubic Transportation Systems, Inc. to upgrade the Nextfare Central System and Cubic Payment Application Software along with installing new device monitoring and reporting software.

BACKGROUND: PATCO’s Automated Fare Collection (AFC) System was designed in 2006 and installed in 2007. The AFC System is comprised of a Central System Computer hub, Ticket Vending Machines, fare and parking gates, monitoring system and a reporting database. During its 7 years of existence, the AFC System has had minor upgrades to various central and device software. These upgrades were the result of 3rd party required software updates such as updates to the Microsoft Operating System, Oracle database and a change in the type of microchip installed in the FREEDOM card. In 2009, a major upgrade to the payment software was required to put PATCO in line with the Payment Card Industry Data Security Standards (PCI-DSS). The latest updates to the PCI-DSS 3.0, effective in 2014, require another major upgrade to the payment application.

The Payment Card Industry Data Security Standard (PCI-DSS) secures card holder data that is stored, processed or transmitted by merchants. As a merchant, PATCO must follow the standards and certify our process to PATCO’s bankcard acquirer.
The Nextfare Central System software connects to the Cubic Payment Application (CPA). The software on both requires updating for PCI-DSS Certification purposes. The upgraded Nextfare application contains the following enhancements: (1) greater application program interface security and full request/response logging; (2) dashboard display for monitoring and history; (3) provides a foundation for adding or supporting open payments and a fully functional customer relationship management application in the future. Included in the Central System Upgrade is a new reporting environment using SAP Edge. The CPA upgrade will allow PATCO to align security programs with the updated standards, therefore meeting the compliance requirement in our bankcard processing agreement.

The upgrade of the AFC System includes a new device management system. The current monitoring system, HPOV, has been deficient in determining why an AFC device is out of service. The new Automated Fare Collection Monitoring System (AFCMS) will monitor the network of Nextfare AFC devices and be able to receive events from the station devices into a central server. The events sent to the server will generate alarms that will facilitate maintenance and revenue service of the devices. AFCMS has the ability to command Nextfare devices and monitor the devices for network connectivity.

The implementation of AFCMS will require changes to the station devices (gates, TVMs). The upgrade will include a new software configuration for the gates and TVMs.

Cubic Transportation Systems is the current manufacturer/integrator of PATCO’s AFC system and the only method of procurement for the proprietary software and device components. Staff has reviewed and evaluated Cubic’s proposal and determined it to be fair and reasonable.
SUMMARY:  
Amount: $2,199,828  
Source of Funds: 2013 Revenue Bonds  
Capital Project #: TE1204, TE1205  
Master Plan Status: N/A  
Other Fund Sources: N/A  
Duration of Contract: 1 year  
Other Parties Involved: N/A
RESOLUTION

RESOLVED: That the Board of Commissioners of the Port Authority Transit Corporation authorizes staff to negotiate a contract with Cubic Transportation Systems whereby Cubic will upgrade PATCO’s Automated Fare Collection Central Computer Systems in the amount of $2,199,828 per the attached Summary Statement; and be it further

RESOLVED: The Chair, Vice Chair and the President must approve and are hereby authorized to approve and execute all necessary agreements, contracts, or other documents on behalf of PATCO. If such agreements, contracts, or other documents have been approved by the Chair, Vice Chair and President and if thereafter either the Chair of Vice Chair is absent or unavailable, the remaining Officer may execute the said document(s) on behalf of PATCO along with the President. If both the Chair and Vice Chair are absent or unavailable, and if it is necessary to execute the said document(s) while they are absent or unavailable, then the President shall execute such documents on behalf of PATCO.

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