SUMMARY STATEMENT

ITEM NO.   SUBJECT: Upgrade of Single Board Computers in PATCO Ticket Vending Machines

COMMITTEE: Operations & Maintenance

COMMITTEE MEETING DATE: February 2, 2011

PATCO BOARD ACTION DATE: March 16, 2011

PROPOSAL: That the Board authorizes staff to negotiate a Contract with Cubic Transportation Systems, Inc. to purchase 62 Single Board Computers (SBCs) to replace the current SBCs in the PATCO Ticket Vending Machines.

Amount: $111,777.00

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

PURPOSE: To contract with Cubic Transportation Systems, Inc. (Cubic) to purchase upgraded Single Board Computers for the Ticket Vending Machines located in all PATCO stations.

BACKGROUND: The Ticket Vending Machine (TVM) Single Board Computers (SBCs) are the main memory and processing engine for vending machines and manage all functionality, including interfaces to the coin handler, bill handler, alarm module, smart card reader, credit/debit processing and pinpad. Because of the security implications and increased requirements mandated by the Payment Card Industry Security Standards Council, it is necessary to provide protection of the AFC ticket vending machines. This safeguarding and protection are achieved through the installation of various security software.

The purchase and installation of these new SBCs will provide for the ability to have increased functionality placed on the TVMs. The new SBCs will have greater processing and memory capacity which will support the added security software. The maximum memory of the ticket vending machines will increase to 1 GB from 512 MB.

Cubic is the system integrator for PATCO’s Automated Fare Collection System and the manufacturer of the TVM. The SBC is a Cubic part designed to accommodate the specific needs of the vending machine (extensive serial ports, environmental requirements, functionality). The SBC contains 14 high speed serial ports and 32
bits of digital I/O. All of this is required for TVM peripherals. The vending machine software is written specifically to talk to these I/O ports at the specific addresses of the SBC. The vending machine proprietary software will not function on another SBC. The design of the SBC belongs to Cubic, and the only method of purchasing an SBC is through Cubic.

It is recommended that the Board authorize staff to negotiate a purchase with Cubic Transportation Systems, Inc. in an amount not to exceed $111,777.

SUMMARY:

| Amount:                  | $111,777 |
| Source of Funding:       | 2010 Revenue Bonds (Series D) |
| Operating Budget:        | N/A      |
| Capital Project #:       | PD1105   |
| Master Plan Status:      | N/A      |
| Other Fund Sources:      | N/A      |
| Duration of Contract:    | N/A      |
| Other Parties Involved:  | N/A      |
RESOLUTION

RESOLVED: That the Board authorizes the proper officers of the Authority to negotiate an Agreement with Cubic Transportation Systems, Inc. whereby Cubic will provide 62 upgraded Single Board Computers for Ticket Vending Machines in the amount not to exceed $111,777 as per the attached Summary Statement; and be it further

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

SUMMARY:

Amount: $111,777
Source of Funding: 2010 Revenue Bonds (Series D)
Operating Budget: N/A
Capital Project #: PD1105
Master Plan Status: N/A
Other Fund Sources: N/A
Duration of Contract: N/A
Other Parties Involved: N/A