SUMMARY STATEMENT

ITEM NO. PATCO-13-015

SUBJECT: Upgrade of Single Board Computers in PATCO Fare and Parking Gates

COMMITTEE: Operations & Maintenance

COMMITTEE MEETING DATE: May 1, 2013

PATCO BOARD ACTION DATE: May 15, 2013

PROPOSAL: That the Board authorizes staff to negotiate a Contract with Cubic Transportation Systems, Inc. to purchase 111 Single Board Computers (SBCs) to replace the current SBCs in the PATCO Parking and Fare Gates.

Amount: $294,155

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 Automatic Fare Collection (AFC) Gates in located in all PATCO stations and parking lots.

BACKGROUND: The gate equipment (fare and parking) Single Board Computers (SBCs) are the main memory and processing engine for gate devices and manage all functionality, including interfaces to the smart card module, alarm module, fare table, hot list and the autolod lists. 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 gate devices. This safeguarding and protection are achieved through the installation of various security software to the gate computers.

The purchase and installation of these new SBCs will provide for the ability to have increased gate functionality. The new SBCs will have greater processing and memory capacity which will support the added security software. The maximum memory of the AFC gates will increase to 2 GB from 256 MB. PATCO will install the SBCs, with remote office support from Cubic.

Cubic is the system integrator for PATCO’s Automated Fare Collection System and the manufacturer of the gate devices. The SBC
is a Cubic part designed to accommodate the specific needs of the fare/parking devices (extensive serial ports, environmental requirements, functionality). The contract price includes new gate SBC retrofit kit, test support during retrofit and new gate Windows embedded XP OS image and software. The gate devices contain proprietary software and will not function with another SBC. The design of the SBC belongs to Cubic, and the only method of purchasing the SBC is through Cubic. Staff has reviewed and evaluated Cubic’s proposal and determined it to be fair and reasonable.

It is recommended that the Board authorize staff to negotiate a purchase with Cubic Transportation Systems, Inc. in an amount not to exceed $294,155.

SUMMARY:

- Amount: $294,155
- Source of Funding: General Fund, subject to Reimbursement by Future Bond Proceeds
- Operating Budget: N/A
- Capital Project #: PD1105
- 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 authorizes the proper officers of the Authority to negotiate an Agreement with Cubic Transportation Systems, Inc. whereby Cubic will provide 111 upgraded Single Board Computers for AFC parking and fare gates in an amount not to exceed $294,155 as 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 or 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 document(s) on behalf of PATCO.

SUMMARY:

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