SUMMARY STATEMENT

ITEM NO. SUBJECT: Contract for IS Support for PATCO Fare Collection System

COMMITTEE: Operations & Maintenance

COMMITTEE MEETING DATE: November 19, 2008

PATCO BOARD ACTION DATE: December 10, 2008

PROPOSAL: That the Board authorizes staff to negotiate an Agreement with Cubic Transportation Systems, Inc. whereby Cubic will provide system administration support to the Nextfare Central System which is the central data collection system for PATCO’s Automated Fare Collection System.

Amount:

- Year 1: $265,653
- 2010 Option: $278,936
- 2011 Option: $292,882

Firm: Cubic Transportation Systems, Inc.

PURPOSE: To contract with Cubic Transportation Systems, Inc. (Cubic) to provide experienced computer system application and engineering personnel to assist DRPA/PATCO in the administration of the Nextfare System.

BACKGROUND: The new fare collection system is a complex computerized operating system powered by Cubic’s Nextfare Central System (NCS). The NCS is the backbone of the AFC system and requires strong application and operational support on a continuous basis. With thousands of transactions processing daily on the network and through fare collection devices, quick response times are required to troubleshoot and solve processing issues which could affect service to our customers.

The Nextfare Central System operates in two general modes. During the production day, it is a transaction-processing engine, capturing data from devices, and posting it to the appropriate database tables. At close of day, it is an analysis engine, which analyzes and summarizes the data, posts the fiscal day’s results, and identifies any inconsistencies that require further analysis. Much of Nextfare’s complexity comes from the number of parameters needed to articulate the fare policy for the TVMs and faregates. The device behavior is controlled with tables and files sent from the Central Computer to on-line devices. Specification of a complete and
consistent set of parameters requires experience with the system. System management and administration functions that are required for the system include patches in equipment software to fix reported problems or add enhancements; modifications and updates to reports and development of ad hoc reports.

The administration of this very sophisticated and highly complex computer system requires technical support services which are not available in-house. The logical provider of this support is Cubic, who has the proprietary rights to Nextfare. Cubic would provide application support such as table and software management, operational support, and revenue support for reconciliation and device services. The agreement with Cubic would be for a one-year period with options for a second and third year. The proposal provides for 1,000 hours of remote technical support. The support provided will consist of a composite of development and support personnel specializing in Java programming, web technology and tools, Nextfare specific reporting, database administration, testing and quality assurance disciplines for a cost not to exceed $265,653 for 2009. The option years provide the same assistance as the base year:

2010 Option: $278,936  
2011 Option: $292,882

It is recommended that the Board authorize staff to negotiate an agreement with Cubic Transportation Systems, Inc. in an amount not to exceed $265,653 for a period of one year.

**SUMMARY:**  
Amount: $265,653  
Source of Funding: Operating Budget: $265,653  
Capital Project #: N/A  
Master Plan Status:  
Other Fund Sources:  
Duration of Contract: 1 year; 2 option years  
Other Parties Involved:
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 support of the AFC Central System in the amount not to exceed $265,653 for a period of one year and options for 2 consecutive years for $278,936 and $292,882 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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