



Metro

**OPERATIONS COMMITTEE
JUNE 16, 2005**

SUBJECT: RADIO EQUIPMENT FOR CONTRACT SERVICES BUS FLEET

**ACTION: PURCHASE ATMS EQUIPMENT FOR CONTRACT SERVICE
BUSES AND NON-REVENUE VEHICLES**

RECOMMENDATION

A. The Board finds that there is only a single source of procurement for Advanced Transportation Management System (ATMS) equipment suites and purchase is for the sole purpose of duplicating equipment already in use. The Board hereby authorizes purchase of ATMS equipment pursuant to Public Utilities Code section 130237.

Requires Two-Thirds Vote

B. Authorize the Chief Executive Officer to negotiate and execute a one year, firm fixed price Contract OP31501711 with Motorola, Inc. for the purchase of 102 ATMS equipment suites for Contracted Buses Services, including installation, and ATMS equipment suites for 2 non-revenue vehicles including installation, in an amount not to exceed \$2,000,000, effective July 1, 2005.

RATIONALE

Installing ATMS equipment on contract service vehicles will significantly enhance safety and Metro's ability to monitor and manage these vehicles. Metro's Bus Operations Control Center (BOCC) will be able to monitor, direct, and respond to any emergency situation on any of these Metro owned vehicles. The automated vehicle location system will allow for cost efficient monitoring and data collections to ensure Metro's operating resources are put into the most effective use.

Contractors currently run 168 of Metro's transit vehicles on a mixture of local and shuttle services. This action will provide for the installation of ATMS equipment on 102 of these vehicles including two road supervisor vehicles. The ATMS equipment that will be installed by Motorola and supported by Metro will include:

On vehicle systems

Systems that would be installed on contractor vehicles include voice and data radios, automatic vehicle location tracking (via GPS), and other related equipment. This action does not include installation of ATMS equipment on approximately 60 contract service vehicles that are scheduled for retirement.

Fixed site systems

This action also includes the retrofit of data radio equipment for operation of these vehicles in the 508 MHz band, including installation of equipment (RF-LAN) at the contract operator facilities to allow for vehicle data uploads and downloads.

All equipment installed under this action reverts to Metro at the end of the service contracts.

IMPACTS TO OTHER CONTRACTS

This action will provide for the phased installation of ATMS equipment on buses operated by Metro contracted bus service providers. Currently, the services are provided by three contractors under the following contracts: PS31500575A, OP31501094, PS31500575C, PS31500575B, OP31501095, OP31501096, and PS31500575D. Effective August 1, 2005, the Board has approved restructuring the contract service into the following three regions:

- East Region - to be operated by Southland Transit
- North Region - to be operated by Transportation Concepts Inc.
- South Region - to be operated by First Transit, Inc.

The ATMS equipment for the buses in the North Region and the South Region will be ordered in early July and installed as the equipment is received. No ATMS equipment will be ordered for the buses operating in the East Region because the remaining useful life of the buses is less than three years. It is not cost effective to install the ATMS equipment in these buses. When new buses are ordered for the East Region, the selected bus manufacturer will be required to also provide the ATMS equipment with the bus.

Once the ATMS equipment is installed and made operational on these vehicles, Metro will be able to receive "Real Time" performance information from these contracted service providers.

FINANCIAL IMPACT

The life of budget project of \$2,000,000 for the purchase of ATMS equipment for Contracted Services Buses has been approved in the FY06 budget, cost center 3590, Transportation Contract Services Implementation under CP number 201002. Approval of this contract does not impact the approved life-of-project budget of \$2 million.

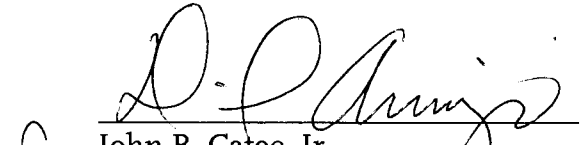
ALTERNATIVES CONSIDERED

Staff considered not purchasing this equipment on contract service operated Metro vehicles. This alternative is not recommended because it would continue to require Metro to utilize other resources (primarily using Metro personnel) to monitor day-to-day operations of contract service providers, such as route/schedule adherence and other operating activities of contract service providers. Additionally, failure to proceed with this action will not provide emergency contact or vehicle location information to the Bus Operations Control Center in the event of an emergency.

ATTACHMENTS

- A. Procurement Summary
- A-1. Procurement History
- A-2. List of Subcontractors

Prepared by: Mark Maloney, Deputy Executive Officer, Transportation Contract Services



John B. Catoe, Jr.
Deputy Chief Executive Officer



Roger Snoble
Chief Executive Officer

**BOARD REPORT ATTACHMENT A
PROCUREMENT SUMMARY**

ADVANCED TRANSPORTATION MANAGEMENT SYSTEM

1.	Contract Number: OP63301711		
2.	Recommended Vendor: Motorola, Inc.		
3.	Cost/Price Analysis Information:		
	A. Bid/Proposed Price: \$2 million	Recommended Price: NTE \$2 million	
	B. Details of Significant Variances are in Attachment A-1.D		
4.	Contract Type: Firm Fixed Price		
5.	Procurement Dates:		
	A. Issued: N/A		
	B. Advertised: N/A		
	C. Pre-proposal Conference: N/A		
	D. Proposals Due: N/A		
	E. Pre-Qualification Completed: Yes		
	F. Conflict of Interest Form Submitted to Ethics: Yes		
6.	Small Business Participation:		
	A. Bid/Proposal Goal: TBD	Date Small Business Evaluation Completed: TBD	
	B. Small Business Commitment: 7.8% Details are in Attachment A-2		
7.	Invitation for Bid/Request for Proposal Data:		
	Notifications Sent: N/A	Bids/Proposals Picked up: N/A	Bids/Proposals Received: N/A
8.	Evaluation Information:		
	A. Bidders/Proposers Names: Motorola, Inc.	<u>Bid/Proposal Amount:</u> \$2 million	<u>Best and Final Offer Amount:</u> NTE \$2 million
	B. Evaluation Methodology: N/A		
9.	Protest Information:		
	A. Protest Period End Date: N/A		
	B. Protest Receipt Date: N/A		
	C. Disposition of Protest Date: N/A		
10.	Contract Administrator: Margaret Merhoff	Telephone Number: (213) 922-1073	
11.	Project Manager: Mark Maloney	Telephone Number: (213) 922-2806	

**BOARD REPORT ATTACHMENT A-1
PROCUREMENT HISTORY**

ADVANCED TRANSPORTATION MANAGEMENT SYSTEM

A. Background on Contractor

Motorola has over 70 years of communications system integration experience and has successfully integrated some of the largest and most complex systems in public safety, transit, federal and international marketplaces. Recently, Motorola completed the Metro ATMS Phase I on time and on budget. Motorola work on Phase II of the ATMS is scheduled to be completed in the spring of 2005.

Motorola's experience includes design and integration of Computer Aided Dispatch, Automatic Vehicle Location, Mobile Data, Voice, Networking, Architecture, and Legacy Systems. In all, Motorola has implemented more than 1,400 systems in North America and more than \$500 million worth of communication systems throughout Southern California alone, including Orange County Transit Authority, San Diego County and the Los Angeles Police Department. Currently, Motorola is implementing a system at Washington Metropolitan Area Transit Authority.

B. Procurement Background

Following a comprehensive negotiated procurement process for specialized equipment pursuant to PUC 130238, the Board approved a firm-fixed price contract award to Motorola in November 2001. The ATMS Contract No. OP63301054 with options is for a period not-to-exceed five years. The contract established option pricing for various equipment and labor costs.

Because Contract No. OP63301054 is nearly complete, a new contract OP31501711 is being established for the provision and installation of the ATMS equipment for Contracted Bus Services. Contract pricing will be based on the option pricing contained in the base ATMS contract.

C. Cost/Price Analysis Explanation of Variances

The recommended price will be determined to be fair and reasonable based upon a complete technical evaluation, and price analysis of the proposal. The existing ATMS contract includes firm-fixed pricing for much of the equipment proposed with the exception of some engineering needed to install the equipment into the 5 different bus types used by the Contract Bus Service Providers.

**BOARD REPORT ATTACHMENT A-2
LIST OF SUBCONTRACTORS**

ADVANCED TRANSPORTATION MANAGEMENT SYSTEM

SMALL BUSINESS PARTICIPATION (OP-6330-1054)

This Contract has a Disadvantaged Business Enterprise (DBE) participation commitment of 6.47%. The Contract was awarded on December 3, 2001 and is approximately 90% complete. Current DBE attainment¹ based on the contract amount² is 7.61% and current DBE participation³ based on total actual amount paid-to-date to Contractor and total actual amount paid-to-date to DBEs is 8.22%.

The three (3) originally listed DBE subcontractors have performed on the contract as listed. The Contractor has demonstrated good faith efforts to maximize DBE participation by utilizing three (3) additional DBE firms.

Prime Contractor: Motorola, Inc.

Subcontractor Name	% Commitment	% Current Attainment	% Current Participation	Current Status
Advantec Consulting Engineering	1.27%	0.72%	0.77%	Completed
Archangel Systems, Inc.	3.93%	4.19%	4.52%	Completed
Global Wireless Communications	1.27%	0.80%	0.86%	Completed
Bitco USA, Inc.	N/A	0.83%	0.89%	Completed
AirWave Communications	N/A	0.92%	1.00%	Completed
Gemini, Inc.	N/A	0.15%	0.18%	Completed
A. TOTAL	6.47%	7.61%	8.22%	Exceeding

1Current Attainment = Total Actual Amount Paid-to-Date to DBE Subs ÷ Total Current Contract Amount

2Current Contract Amount = Original Contract Value + Contract Cost Modifications

3Current Participation = Total Actual Amount Paid-to-Date to DBE Subs ÷ Total Actual Amount Paid-to-Date to Prime

Prime Contractor: Motorola, Inc.

DBE Subcontractor(s): Advantec Consulting
Archangel Systems, Inc.

Global Wireless Communications (dba Global
Communications)
The Spectrum Firm

Other Subcontractor(s):

Orbital Sciences
Advanced Electronics
Canam Technology Inc.
Day Wireless
DSP
Hi Tech Fabrications, Inc.
Global Wireless Communications/SaTera Corporation
(dba MaComCo)
TransWorld Connections, LTD
Digital Recorders
IRIS-GMBH
Can Dou Communications