

ADVANCED TRANSIT VEHICLE CONSORTIUM

Los Angeles County Metropolitan Transportation Authority
One Gateway Plaza
Los Angeles, CA 90012

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NOVEMBER 6, 2006

TO: BOARD OF DIRECTORS

**FROM: JOHN B. CATOE, JR.
PRESIDENT**

**SUBJECT: EXERCISE ONE-YEAR OPTION FOR ARIELI ASSOCIATES
CONTRACT NO. OP33201764**

RECOMMENDATION:

Authorize the Chief Executive Officer to exercise the contract option and execute Modification No. 2 to Contract No. OP33201764 with Arieli Associates to provide technical consulting services in support of the Advanced Transit Vehicle Consortium (ATVC) for a period of one-year not to exceed of \$200,000 increasing the Total Contract Value from \$200,000 to \$400,000.

BACKGROUND:

Arieli Associates has supported ATVC since February 2002 through various contracts. Under Contract No. OP33201764, Arieli Associates provides ATVC with a broad array of technical advisory services related to vehicle acquisition strategies (Work Plan attached). Dr. Arieli's fully burdened hourly rate is \$230 per hour.

DELIVERABLES:

Arieli Associates provides ATVC with consultation services, written correspondence, recommendations on potential technological advances, facilitates "brainstorming" sessions, develops presentations on behalf of ATVC, participates in negotiations with vendors and industry representatives, and performs other activities arising from the regular work of the ATVC as directed by the ATVC President.

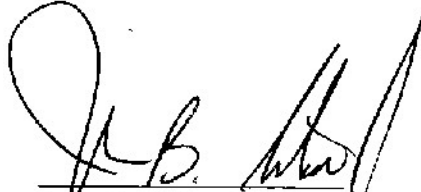
FINANCIAL IMPACT

The Advanced Transit Vehicle Consortium will provide funding for this contract.

ATTACHMENTS:

1. ATVC Consultant - Comparison of Budgeted vs. Actual Work Hours
2. Procurement History - Contract OP33201764 with Arieli Associates
3. Work Plan

Prepared by: John Drayton, Manager, Vehicle Technology
Susan Dove, Contract Administrator



John B. Catoe, Jr
President, Advanced Transit Vehicle Consortium

**Attachment 1 -ATVC Consultant
Comparison of Budgeted vs. Actual Work Hours for 2006 (through October 1, 2006)**

ATVC CONSULTANT CONTRACT ACTIVITIES January-December 2006	Budgeted Project Hours through Jan-June 30, 2006	Budgeted Cost Jan- June 2006	Actual Project Hours through Jun-Dec 30, 2006	Actual Cost Jan- Jun 2006	Budgeted Project Hours through June-Dec 30, 2006	Budgeted Cost Jun- Dec 2006	Actual Project Hours through Jun-Dec 30, 2006	Actual Cost Jun-Dec 2006*
2007 Environmental Regulations (HCNG & Hybrid)	165.0	\$37,950	117.0	\$26,910	50.0	\$11,500	18.0	\$4,140
2010 Environmental Regulations (HCNG, Hybrid, Trolley Demos)	190.0	43,700	86.0	19,780	120.0	27,600	96.0	22,080
Technology Workshops (Fuel Cell & Adv. Tech. Workshop)	25.0	5,750	15.0	3,450	75.0	17,250	2.0	460
Neighborhood Circulators	60.0	13,800	22.0	5,060	10.0	2,300	20.0	4,600
Future Growth and Operations (Low Noise, Alternative Vehicle Designs)	25.0	5,750	24.0	5,520	20.0	4,600	35.0	8,050
Other Activities (Metro Procurement Support)	65.0	14,950	124.0	28,520	145.0	33,350	53.0	12,190
Total Work Plan	530.0	\$121,900	388.0	\$89,240	420.0	\$96,600	224.0	\$51,520

* Includes expenses billed through October 1, 2006. Totals above also do not include a billing of \$11,960 for work conducted under this contract in December 2005.

**BOARD REPORT ATTACHMENT -PROCUREMENT HISTORY
EXERCISE THE CONTRACT OPTION AND TO EXECUTE
MODIFICATION NO. 2 TO CONTRACT NO. OP33201764 WITH ARIELI
ASSOCIATES TO PROVIDE TECHNICAL CONSULTING SERVICES
FOR A PERIOD OF ONE-YEAR**

A. Background on Contractor

Arieli Associates, Los Angeles, CA, has successfully provided the FCBC, ATVC and MTA with consultant services since February 2002. Prior to that period, Dr. Adi Arieli, President, Arieli Associates served as the program director for the Advanced Technology Transit Bus (ATTB). The services performed by Dr. Adi Arieli have consisted of several of the key elements of the current contract requirements, including expertise level advice on advanced transit vehicle technologies, national and state level experience in public transit matters, as well as a proven record of dealing with local transit and regulatory agencies and municipalities.

B. Procurement Background

On September 13, 2005, Requests for Proposals were sent to known industry experts. The RFP included a Firm Fixed Hourly Rate Contract that would be awarded to the proposer whose proposal meets the requirements of the RFP and is most advantageous to the ATVC based upon the proposal evaluation criteria. The RFP noted that ATVC shall select the lower priced consultant(s) when all other qualifications are determined to be nearly equivalent. The RFP was also advertised and was posted on the MTA's web site. On September 23, 2005, three proposals were received from Arieli Associates, Mobile Energy Solutions, and Stoney Hill Transportation LLC. Metro Staff recommended contract award to Arieli Associates for two years inclusive of a one-year option. The ATVC Board approved contract award to Arieli Associates for a period of one-year in the amount of \$200,000. On December 5, 2006, a contract was awarded to Arieli Associates.

C. Evaluation of Proposals

The ATVC Evaluation Committee found that two of the proposers were qualified to perform the services defined by the Contract. However, it was determined that Arieli associates offered the best combination of program management experience, transit industry knowledge, and education. Although Arieli Associates fully burdened rate is higher than the other competitors, the fully burdened rate is commensurate with Dr. Arieli 's education and professional experience.

In order to ensure that the option pricing was fair and reasonable, a market survey was performed on fully burdened rates for similar services. Based on the results of the market survey, the fully burdened rate proposed by Arieli Associates is fair and reasonable.

D. Cost/Price Analysis Explanation of Variances

The recommended price for the base contract has been determined to be fair and reasonable based upon adequate competition and existing historical pricing for similar services. The recommended price for the one-year option was based on a market survey performed for similar services.

ATVC 2007 Consultant Work Plan 10-31-06.xls
 Long Term Goals & Priorities

ATTACHMENT 3

	2006	2007	2008	2009	2010
Major Initiatives and Projects					
HCNG Demonstration	HCNG Demonstration	HCNG Demonstration	HCNG Demonstration	ZEV Demonstration	Initiation of METRO ZEV Prog
Hybrid Demonstration	Hybrid Demonstration	Hybrid Demonstration	Hybrid Demonstration	Initiate Low Noise Strategies	Initiate Low Noise Strategies
Electric Trolley Study	ZEV Study	ZEV Study/Demonstration	ZEV Study/Demonstration	Follow-on Hybrid/HCNG Project	Follow-on Hybrid/HCNG Project
45' Procurement Support	Electric Trolley Feasibility	Electric Trolley Feasibility	Electric Trolley Feasibility	Electric Trolley Feasibility	Electric Trolley Feasibility
On-Going Activities					
Low Noise Vehicle Study	Low Noise Vehicle Study	Low Noise Vehicle Study	Low Noise Demonstration		
Fuel Cell Workshop	Fuel Cell Workshop	Fuel Cell Workshop	Fuel Cell Workshop	Fuel Cell Workshop	Fuel Cell Workshop
Composite Structure Analysis	Composite Structure Analysis	Composite Structure Analysis	Composite Structure Analysis	Composite Structure Analysis	Composite Structure Analysis
Bus Procurement Plan Review	Bus Procurement Plan Review	Bus Procurement Plan Review	Bus Procurement Plan Review	Bus Procurement Plan Review	Bus Procurement Plan Review
Advanced Propulsion Systems	Advanced Propulsion Systems	Advanced Propulsion Systems	Advanced Propulsion Systems	Advanced Propulsion Systems	Advanced Propulsion Systems
Other Advanced Technologies	Other Advanced Technologies	Other Advanced Technologies	Other Advanced Technologies	Other Advanced Technologies	Other Advanced Technologies

Definitions

- HCNG A project involving blended hydrogen/CNG fuels. In this case, this also refers to a pending demonstration with AQMD and City Engines.
- Hybrid A propulsion system that uses a combination of mechanical and electrical motors to drive wheels.
- Electric Trolley An electric motor driven vehicle that uses off-board energy generation typically via overhead catenary/pantograph system.
- ZEV Zero Emission Vehicle. Proposed 2010 CARB Regulations stipulate that 15% of bus purchases be ZEV after that date.
- Low Noise Current buses are 83db, while the articulated buses were 78db. Low Noise Vehicle research will look at further noise reduction strategies.
- Fuel Cell A chemically based electrical generating system.
- Composite fabrics.
- Advanced Propulsion New technologies not already listed above. May include hydraulic drive trains and/or alternative engine types such as micro-turbines.
- Other Advanced Technologies Other developing technologies not otherwise covered above, particularly energy storage technologies, possibly high voltage electrical systems.

ATVC 2007 Consultant Work Plan 10-31-06.xls
Summary

CONTRACT ACTIVITIES January-December 2007		Budgeted Project Hours through Jan-June 30, 2007	Budgeted Cost Jan- Jun 2007	Actual Project Hours through Jun-Dec 30, 2007	Actual Cost Jan- Jun 2007	Budgeted Project Hours through June-Dec 30, 2007	Budgeted Cost Jan- Dec 2007	Actual Project Hours through Jun-Dec 30, 2007	Actual Cost Jun-Dec 2007
2007 Environmental Regulations (HCNG & Hybrid)	-	-	-	-	-	-	-	-	-
2010 Environmental Regulations (HCNG, Hybrid, Trolley Demos)	200.0	46,000	-	-	-	200.0	46,000	-	-
Technology Workshops (Fuel Cell & Adv. Tech. Workshop)	-	-	-	-	-	50.0	11,500	-	-
Neighborhood Circulators	25.0	5,750	-	-	25.0	5,750	-	-	
Future Growth and Operations (Low Noise, Alternative Vehicle Designs)	50.0	11,500	-	-	50.0	11,500	-	-	
Other Activities (Metro Procurement Support)	100.0	23,000	-	-	100.0	23,000	-	-	
Total Work Plan	375.0	86,250	-	-	425.0	97,750	-	-	