



Board Report

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Agenda Number: 20.

OPERATIONS, SAFETY, AND CUSTOMER EXPERIENCE COMMITTEE SEPTEMBER 20, 2018

**SUBJECT: A650 STATIC CONVERTER LOW VOLTAGE POWER SUPPLY (LVPS) ASSEMBLY
(OPTION-BUY FLEET)**

ACTION: CONTRACT AWARD

RECOMMENDATION

AWARD a 60-month indefinite quantity/indefinite delivery Contract No. MA48386000 to Knorr-Bremse PowerTech to overhaul up to 42 Static Converter LVPS Assemblies for the A650 Option Rail Vehicle for a not-to-exceed amount of \$1,308,394, subject to resolution of protest(s), if any.

ISSUE

The Original Equipment Manufacturer (OEM) establishes a timeline for vehicle maintenance and major systems overhauls in order to maintain the safety and level of performance of their vehicles.

Implementation of this overhaul program helps ensure the A650 Option-buy fleet remains in a constant State of Good Repair (SGR) by overhauling multiple systems on the vehicles including friction brake, doors, gear units, traction motors, trucks and suspension, LVPS and coupler systems. Completing this scheduled overhaul will ensure equipment safety, performance and longevity of the rail cars.

BACKGROUND

The Breda A650 Option-Buy Heavy Rail Vehicle Fleet is in its 21st year of revenue service operations with an average per car mileage of over 1.4 million miles, accumulated fleet mileage of over 98 million miles with consistent performance, and a reliable safety record. The A650 fleet, consisting of 74 rail cars, is due for the acquisition of Static Converter LVPS overhaul services per the original equipment manufacturer (OEM) and Metro Engineering's recommendations. The LVPS overhaul is one of fourteen vehicle systems to be overhauled which require procurement contracts.

DISCUSSION

The LVPS assembly consists of electronic and high voltage electrical components that convert nominal 750 Vdc to 37.5 Vdc while providing power to the low voltage circuits for battery charging, emergency lighting, and supply voltage to various motors and auxiliary equipment on the rail car.

Upon malfunction of the LVPS, there will be consequential negative impacts to the vehicle low voltage systems including battery malfunction, inoperability of various systems and passenger emergency lighting failures with service delays and customer inconvenience. Servicing and inspecting of the LVPS is performed by in-house maintenance personnel; however, overhaul of this equipment is beyond the level of in-house maintenance capability and is therefore required to be performed by a qualified vendor. The contractor will perform services in accordance with OEM and Metro Engineering specifications following a production schedule of two units per month.

The LVPS overhaul is one of fourteen vehicle systems to be overhauled which require procurement contracts. Systems to be overhauled or modified in this program include car interior renovations, bike area and railing modifications, loop step modification, seat insert replacement, passenger door, friction brake, air compressor, AC evaporator motor upgrade, coupler, semi-permanent drawbar, air spring replacement, traction motor, gear unit, and LVPS overhaul.

DETERMINATION OF SAFETY IMPACT

Passenger and employee safety are of the utmost importance to Metro and, therefore, it is imperative to maintain the A650 Option-Buy fleet to a constant state of good repair. The LVPS overhaul is in support of the complete A650 component overhaul program. This effort will ensure that these vehicles are maintained by OEM recommendations and regulatory standards, according to the defined schedule and technical specification requirements, and within Metro's internal Corporate Safety standards.

FINANCIAL IMPACT

The total contract amount is \$1,308,394. Funding of \$50,000 for this procurement is included in the FY19 budget in cost center 3942, Rail Fleet Services Maintenance Red Line, under project number 206034, line item 50316, Professional & Tech Service.

Since this is a multi-year contract, the cost center manager, project manager and Sr. Executive Officer, Rail Fleet Services will ensure that the balance of funds is budgeted in future fiscal years

Impact to Budget

The Current source of funding for this acquisition is Proposition A 35% debt. This funding source maximizes allowable uses given approved funding provisions and guidelines.

IMPLEMENTATION OF STRATEGIC PLAN GOALS

Approval of this recommendation supports the following Metro Strategic Plan Goal: Provide high quality mobility options that enable people to spend less time travelling. This project will improve safety, service, and reliability in an effort to provide a world-class transportation system that enhances quality of life for all who live, work, and play within LA County

ALTERNATIVES CONSIDERED

The LVPS Assembly is a safety critical system required to be overhauled per the OEM and regulatory requirements. To avoid catastrophic equipment failures of the LVPS electronic components and to avoid service delays and customer inconvenience deferring this overhaul is not recommended as Metro could also be subject to penalties mandated by the California Public Utilities Commission.

NEXT STEPS

Overhaul of the Static Converter LVPS Assembly on the A650 Heavy Rail vehicles will continue in accordance with Rail Fleet Services scheduled requirements. If approved, the project is scheduled to commence in December 2018.

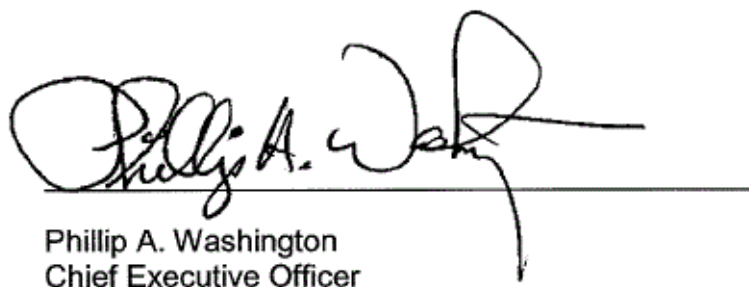
ATTACHMENTS

Attachment A - Procurement Summary

Attachment B - DEOD Summary

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Phillip A. Washington
Chief Executive Officer

PROCUREMENT SUMMARY

A650 STATIC CONVERTER LVPS ASSEMBLY OVERHAUL/MA48386000

1.	Contract Number: MA48386000	
2.	Recommended Vendor: Knorr-Bremse PowerTech Corp USA	
3.	Type of Procurement (check one): <input type="checkbox"/> IFB <input checked="" type="checkbox"/> RFP <input type="checkbox"/> RFP-A&E <input type="checkbox"/> Non-Competitive <input type="checkbox"/> Modification <input type="checkbox"/> Task Order	
4.	Procurement Dates:	
	A. Issued: December 22, 2017	
	B. Advertised/Publicized: December 28, 2017	
	C. Pre-Proposal Conference: January 12, 2018	
	D. Proposals Due: February 23, 2018	
	E. Pre-Qualification Completed: June 27, 2018	
	F. Conflict of Interest Form Submitted to Ethics: June 20, 2018	
	G. Protest Period End Date: September 6, 2018	
5.	Solicitations Picked up/Downloaded: 14	Proposals Received: 2
6.	Contract Administrator: Jean Davis	Telephone Number: 213/922-1041
7.	Project Manager: Fred Kan	Telephone Number: 213/922-3304

A. Procurement Background

This Board Action is to approve Contract No. MA48386000 issued in support of Metro's A650 Heavy Rail Vehicle (HRV) to procure services required for the overhaul of the Static Converter Low Voltage Power Supply (LVPS) Assemblies. Board approval of this contract award is subject to resolution of any properly submitted protest(s).

The Request for Proposal (RFP) was issued in accordance with Metro's Acquisition Policy the contract type an Indefinite Delivery, Indefinite Quantity (IDIQ).

Three amendments were issued during the solicitation phase of this RFP:

- Amendment No. 1, issued on January 26, 2018, revised the proposal due date.
- Amendment No. 2, issued on February 8, 2018, revised technical specifications and the proposal due date.
- Amendment No. 3, issued on February 15, 2018, provided changes to the RFP and revised the due date from February 16, 2018 to February 23, 2018.

A pre-proposal conference was held on January 12, 2018 and there were seven attendees. Two proposals were received.

B. Evaluation of Proposals

This procurement was conducted in accordance and complies with Metro's Acquisition Policy for a Technically Acceptable Lowest Price (TALP) competitive RFP procurement process. The two proposals received are listed in alphabetical order below:

Proposer Name	
1.	Knorr-Bremse PowerTech Corp. USA (Knorr-Bremse PowerTech)
2.	PSI Repair Services, Inc. (PSI)

A Proposal Evaluation Team (PET), consisting of Metro staff members from Rail Fleet Services, Rail Vehicle Engineering, and Rail Vehicle Acquisitions and Maintenance departments, convened and conducted the evaluation of the proposals received. The two proposals were evaluated based upon the pre-established evaluation criteria defined in the RFP.

The following represents the ratings by the PET on each proposer:

Proposers	Rating
Knorr-Bremse PowerTech	Technically Acceptable
PSI	Technically Unacceptable

PSI did not meet several of the pre-established evaluation criteria listed in the RFP and were deemed to be technically unacceptable. Knorr-Bremse PowerTech met all the pre-established evaluation criteria listed in the RFP and was found to be technically acceptable, responsive and responsible to all the RFP requirements.

Market Analysis

A market analysis was performed by staff to determine the reasons Metro only received two proposals. Staff found that the RFP was downloaded by 14 separate entities. One firm advised Metro's staff it was unable to obtain quotes and testing information from the Original Equipment Manufacturer (OEM). Another firm indicated that it was unable to meet and comply with the evaluation criteria defined in the RFP. The remaining firms contacted for the survey were either unavailable or non-responsive to Metro's request for information. Staff also re-examined the RFP requirements and determined the requirements were not restrictive. Staff determined that the RFP did not prohibit free and open competition and the RFP was conducted in a competitive environment.

C. Price Analysis

Knorr-Bremse PowerTech's total proposal price has been determined to be fair and reasonable based on adequate competition and historical price comparisons of the same or similar overhaul services.

Proposer Name	Proposal Amount	Metro ICE
Knorr-Bremse PowerTech	\$1,308,394	\$919,000

D. Background on Recommended Contractor

Knorr-Bremse PowerTech, located in Mount Olive, New Jersey, has expertise and capabilities in the areas of power conversion, electrical equipment for rail vehicles, industrial and research applications. Knorr-Bremse PowerTech has compiled 40+ years of providing and overhauling auxiliary power systems, battery chargers, and low voltage power supplies to rail authorities and the industry. The firm has current auxiliary inverter overhaul contracts with St. Louis Metro and TriMet of Oregon. Knorr-Bremse PowerTech has existing and past contracts with Metro supporting other rail vehicle overhauls and its performance has performed satisfactory.

DEOD SUMMARY

A650 STATIC CONVERTER LVPS ASSEMBLY OVERHAUL / MA48386000

A. Small Business Participation

The Diversity and Economic Opportunity Department (DEOD) established a 3% Small Business Enterprise (SBE) and 3% Disabled Veteran Business Enterprise (DVBE) goal for this solicitation. KB-PowerTech met the goal by making a 3% SBE and 3% DVBE commitment.

Small Business Goal	3% SBE & 3% DVBE	Small Business Commitment	3% SBE & 3% DVBE
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	SBE Subcontractors	% Committed
1.	Say Cargo Express, Inc.	3.00%
	Total Commitment	3.00%

	DVBE Subcontractors	% Committed
1.	AmeriVet Logistics, Inc.	3.00%
	Total Commitment	3.00%

B. Living/Prevailing Wage and Service Contract Worker Retention Policy Applicability

The Living Wage and Service Contract Worker Retention Policy is not applicable to this Contract.

C. Prevailing Wage Applicability

Prevailing wages are not applicable to this Contract.

D. Project Labor Agreement/Construction Careers Policy

Project Labor Agreement/Construction Careers Policy is not applicable to this Contract. PLA/CCP is applicable only to construction contracts that have a construction related value in excess of \$2.5 million.